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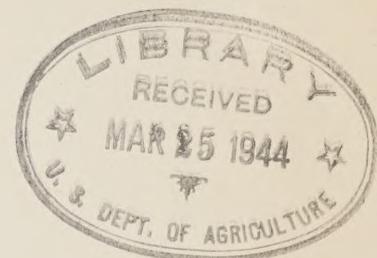




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# AGRICULTURAL LIBRARY NOTES

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VOLUME 10

JANUARY - DECEMBER

1935

Edited by Claribel R. Barnett,  
Librarian, United States Department of Agriculture

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Agriculture

GILLESPIE, J. L. Pasture development in Australia. Ed. 2. [n.p., Sunshine harvester press, 1934?]

RINNE, LEO. The Estonian moor society and the experimental station of moor-cultivation at Tooma. Tartu, O/i "Ilutrükk", 1934.

Bacteriology

FLEMING, ALEXANDER, and PETRIE, G. F. Recent advances in vaccine and serum therapy. London, Churchill, 1934.

VANDEVELDE, A. J. J. Het rijk der microben. Mechelen, N.V. Het Kompas, 1934.

Botany

BRITISH FLOWER MARKETING ASSOCIATION. Carnation disease investigation scheme. Progress report. pt.2-3. London, 1934.

GOOD, RONALD. Plants and human economics. Cambridge, University press, 1933.

LEWIS, FREDERICK. The vegetable products of Ceylon. Colombo, Associated newspapers of Ceylon, 1934.

PARKER, R. N. Common Indian trees and how to know them. Delhi, Forest research institute, Dehra Dun, 1933.

PORTERFIELD, W. M. Wayside plants and weeds of Shanghai. Shanghai, Kelly & Walsh, 1933.

RAUNKIAER, CHRISTEN. Dansk ekskursions-flora. Ed. 5. København, Gyldendalske boghandel, 1934.

Cartography

CHURCH, E. F. Supplemental topics in aerial photogrammetry concerning computations based upon comparator measurements. Syracuse, N. Y., 1933.

Chemistry

ARMSTRONG, E. F., and ARMSTRONG, K. F. The carbohydrates. Ed. 5. London, Longmans, Green, 1934.

ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. Golden anniversary, 1884-1934. [n.p.] 1934.

BENNETT, HARRY. Practical everyday chemistry. New York, Chemical publishing Co. of New York, 1934.

LUNDEGARDH, H. G. Die quantitative spektralanalyse der elemente. Jen, Fischer, 1929.

SEARLE, A. B. The chemistry & physics of clays and other ceramic materials. Ed. 2. London, Benn, 1933.

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Description and travel

EMERSON, C. L. Wisconsin; scenic and historic trails. Madison, Straus, 1933.  
RICE, J. H. The aftermath of glory. Charleston, S. C., Walker, Evans & Cogswell, 1934.

Domestic animals, Veterinary medicine

HARRISON, FAIRFAX. Early American turf stock, 1730-1830. Being a critical study of the extant evidence for the English, Spanish and oriental horses and mares to which are traced the oldest American turf pedigrees. v. 1. Richmond, Va., Priv. print., The Old dominion press, 1934.  
LARSEN, L. H. Die rindviehzucht in Däemark insbesondere die zucht der roten dänischen milchrasse. 2.übersicht von den zusammenwirkenden landwirtschaftsvereinen im stiffe Seeland. 1933. Frederiksberg, 1933.  
NÖLLER, WILHELM. Die leberfaile (leberegelkrankheit) unserer haustiere. Jena, Fischer, 1925.  
NORDISKA VETERINÄRMÖTET. 4th, Helsingfors, 1933. 4. Nordiska veterinärmötet i Helsingfors den 10 - 12 juli 1933. Helsingfors, Tilgmanns tryckeri, 1934.  
WORLD'S POULTRY CONGRESS. 5th, Rome, 1933. Atti. Roma, Ministero dell' agricoltura e delle foreste, Direzione generale dell'agricoltura, 1934.

Economics, Statistics

BUCK, N. S., ed. Survey of contemporary economics. New York, Nelson, 1934.  
CALIFORNIA. UNIVERSITY. HELLER COMMITTEE FOR RESEARCH IN SOCIAL ECONOMICS. Standards of relief in selected cities of the United States, 1933. Berkeley, Calif., 1934. Mimeographed.  
CHAMBER OF COMMERCE OF THE UNITED STATES OF AMERICA, Washington, Current national problems; an address by Henry I. Harriman, president. Washington, 1934.  
COMMISSION OF INQUIRY INTO NATIONAL POLICY IN INTERNATIONAL ECONOMIC RELATIONS. International economic relations. Minneapolis, University of Minnesota press, 1934.  
CROWTHER, SAMUEL. A primer; comment on the great constructive work of the President of the United States in making arithmetic the basic science of government. New York, Chemical foundation, 1934.  
DEANE, A. L. The Deane plan. Mutual security - guaranteed jobs for the worker, a guaranteed market for industry. New York, 1934.  
EMERY, BROOKS. The strategy of raw materials; a study of America in peace and war. New York, Macmillan, 1934.  
FERNADEZ, G. M. Bolsas y mercados de comercio. Rosario, Pomponio, 1934.  
FISHER, IRVING. Are booms and depressions transmitted internationally through monetary standards? New Haven, Conn., 1934.  
GT. BRIT. CENSUS OFFICE. Census, 1931. Classification of occupations. London, 1934.  
GT. BRIT. CENSUS OFFICE. Census of England & Wales 1931. Occupation tables. London, 1934.  
GT. BRIT. MINISTRY OF LABOUR. Reports of investigations into the industrial conditions in certain depressed areas of I. West Cumberland and Haltwhistle. II. Durham and Tyneside. III. South Wales and Monmouthshire. IV. Scotland. London, 1934.

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- HUBBARD, J. B., ed. Current economic policies; selected discussions. New York, Holt, 1934.
- LATVIA. VALSTS STATISTISKĀ PĀRVALDE. Exploitations agricoles nouvelles (D'après les renseignements du recensement agricole de 1929, d'après celui de la production agricole de 1929/1930 et d'après les données de la comptabilité agricole) Riga, 1934.
- MORRISON, H. C., jr., ed. One man's philosophy. Chicago, M. Kallis, 1934.
- OPPENHEIMER, LUDWIG. Gross-und kleinbetrieb in der siedlung. Berlin, Fischer, 1934.
- TENNESSEE TAXPAYERS ASSOCIATION, INC. A report of the survey of the finances and management of the government of Sullivan county, Tennessee. Nashville, 1934. Mimeographed.

### Economics, Agricultural

- BERTHIER, LUCIENNE, and others. Les fruits de Provence en face des tendances de la concurrence de l'Est européen et du proche Orient. Aix-en-Provence, 1933. (Annales de la Faculté de droit d'Aix, n.s., no.22)
- BORSIG, ERNST VON. Reagrarisierung Deutschlands? Eine untersuchung über ihre möglichkeiten und grenzen. Jena, Fischer, 1934. (Munchener volkswirtschaftliche studien. n.f., hrsg.von Walther Lotz und anderen. hft. 21)
- BRIDGES, ARCHIBALD, and DIKEY, R. N. British sugar beet; ten years' progress under the subsidy. Oxford, Agricultural economics research institute, 1934.
- SCOTLAND. COMMITTEE ON VALUATION OF SHEEP STOCKS IN SCOTLAND. Report. Edinburgh, 1934.

### Entomology

- PETERS, GERHARD. A short guide to free fumigation. Ed. 2. Francfort o.M., Deutsche gesellschaft für schädlingsbekämpfung, 1934.

### Filing

- AMERICAN INSTITUTE OF ARCHITECTS. Standard filing system for information on building materials and appliances. Washington, 1930.
- Alphabetical index to the Standard filing system. Washington, 1930.

### Food

- EMERSON, G. A. Some nutrition studies with dogs. Berkeley, Calif. [1934?] Mimeographed.
- HINTON, C. L. A summary of food laws & regulations. London, Nema press, 1934.
- PATTEE, A. F. Practical dietetics. Ed. 19. Mount Vernon, N. Y., A. F. Pattee, 1933.

### Geography

- MORRISON, N. F. A commercial and economic geography. Toronto, Ryerson press, 1934.

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Horticulture

RUATTI, GIUSEPPE. Lo sviluppo frutticolo di Cles, Tuanno, Manno, Tassillo, nella Valle di Non. Trento, Arti grafiche Saturnia, 1932.

WRIGHT, R. L. The winter diversions of a gardener. Philadelphia, Lippincott, 1934.

Learned societies

ROYAL DUBLIN SOCIETY. Bi-centenary souvenir, 1731-1931. Dublin [1931?]

Milk

LOVE, R. M. The milk problem. London, F. R. Britton, 1934.

Parks

PHILADELPHIA. REGIONAL PLANNING FEDERATION OF THE PHILADELPHIA TRI-STATE DISTRICT. Nature's plan for parks and parkways; recreational lands in the Philadelphia tri-state district. Philadelphia, 1932.

Physiology

MONCRIEFF, ALAN. Tests for respiratory efficiency. London, 1934. (Medical research council (Gt.Brit.) Special report series, no. 198)

Radio

NATIONAL COMMITTEE ON EDUCATION BY RADIO. Some interpretations and conclusions of the land-grant radio survey. By T. F. Tyler. Washington, 1933.

Reference books

KELLER, H. R. The dictionary of dates. New York, Macmillan, 1934.

Roads

SMITH, R. A. B. Design and construction of concrete roads. London, Concrete publications, 1934.

Rubber

RITZ, FRANZ. Kautschukjäger im urwald. Zürich-Leipzig, Füssli, 1934.

Sericulture

ENTE NAZIONALE SERICO. I principali provvedimenti legislativi riguardanti la sericoltura e l'industria serica. Milano, 1934.

Soils

INDIA. MYSORE. DEPT OF AGRICULTURE. Irwin canal soil survey report series. no. 1. Bangalore, 1934.

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Taxation

ILLINOIS. LAWS, STATUTES, ETC. Tax laws, compiled and annotated, issued by Illinois state tax commission. Chicago, 1934.

WISCONSIN TAXPAYERS ALLIANCE. Wisconsin taxes. Madison, 1934.

Transportation

CANADA. PARLIAMENT. SENATE. SPECIAL COMMITTEE ON TOURIST TRAFFIC. Report and proceedings. Ottawa, 1934.

VICTORIA, AUSTRALIA. TRANSPORT REGULATION BOARD. Further (second) report relating to the better and more economic co-ordination and the better regulation and control of railway and road motor transport. Melbourne, 1933.

WISCONSIN. LAWS, STATUTES, ETC. Wisconsin statutes relating to the Public service commission of Wisconsin and the regulation of railroads including street and interurban railways and express and telegraph companies. Madison, Public service commission of Wisconsin, 1933.

Welding

BARDTKE, PAUL. Technique of modern welding. Authorized translation from the second German edition, by Harold Kenney. London, Blackie, 1933.

Zoology

ANGEL, M. F. Sur une collection de reptiles et de batraciens de Madagascar. Paris, 1934. (Faune des colonies françaises, pub. sous la direction de A. Gruvel. tome 5, fasc. 6)

CHABANAUD, PAUL. Contribution à l'ostéologie des chéloniens pleurodières de la famille des pelomédusidés. Paris, 1934. (Faune des colonies françaises, publ sous la direction de A. Gruvel. tome 5, fasc. 5)

CHABANAUD, PAUL. Poissons (premier mémoire) Paris, 1934. (Faune des colonies françaises, pub. sous la direction de A. Gruvel. tome 5, fasc. 4)

CONTRIBUTION à l'étude des crustacés de Madagascar. Paris, 1934. (Faune des colonies françaises, pub. sous la direction de A. Gruvel. tome 5, fasc. 8)

LANCASHIRE SEA-FISHERIES LABORATORY. James Johnstone memorial volume. Liverpool, 1934.

LAVAUDEN, LOUIS. Les grands animaux de chasse de l'Afrique française (A.O.F., A.E.F. et Cameroun) Paris, 1934. (Faune des colonies françaises, pub. sous la direction de A. Gruvel. tome 5, fasc. 7)

ROSTAND, JEAN. Toads and toad life. Translated by Joan Fletcher. London, Methuen, 1934.

SLEVIN, J. R. A handbook of reptiles and amphibians of the Pacific States. San Francisco, California academy of science, 1934.

Theses

BARABÁS, ISTVÁN. Hämatologische und serologische untersuchungen an gegen den geflügeltyphus vakzinirten hühnern. Budapest, 1931. Inaug.-diss. Budapest.

BARROS BARRETO, A. L. C. de A. de. Reviso da sub-familia Subularinae Travassos, 1914. Rio de Janeiro, 1918. Thesis. Rio de Janeiro.

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### Theses (continued)

- BEYER, HERBERT. Vergleichende untersuchungen auf verschiedenen mit pfleg und fräse bearbeiteten böden. Dresden, 1934. Inaug.-diss. Leipzig.
- KIS, SANDOR. Verleiehende untersuchungen über die praeventive subcutane und intracutane milzbrand-schutzimpfung. Budapest, 1931. Inaug.-diss. Budapest.
- Auszüll.
- HUENDER, W. J. De Engelsche geographie in der 20ste eeuw. Utrecht, 1934. Proefschrift. Utrecht.

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### JAMES CLEGHORN'S ESSAY ON THE DEPRESSED STATE OF AGRICULTURE

James Cleghorn's essay on the Depressed State of Agriculture is a contemporary analysis of the agricultural depression which followed the Napoleonic Wars. It was voted "a piece of plate of 50 guineas value" and ordered published by the Highland Society of Scotland in 1822. Being foremost among the literature on the post-Napoleonic depression, it is of considerable interest to those students of the agricultural depression of our own day who have manifested a curiosity in similar conditions in the past, hoping that comparisons may furnish a perspective from which the current situation can be viewed with greater insight. The similarity of the general problems of agriculture and the relief measures proposed in the years following the Napoleonic period and those of our own post-war period are striking. Believing that the discernment manifested in James Cleghorn's study justifies its being more widely known, the Division of Statistical and Historical Research of the Bureau of Agricultural Economics has reissued it in mimeographed form, with a foreword by Everett E. Edwards and two charts depicting wholesale price indices. A limited number of copies are available for free distribution.

James Cleghorn (1778-1838) was a native of Dunse, Scotland. His early life was devoted to farming. In 1811 he moved to Edinburgh, where he edited the Farmers' Journal. Six years later he assumed the co-editorship of the Edinburgh Monthly Magazine, of which only six numbers were issued. Subsequently he was connected with the Scots Magazine. He contributed an article on agriculture to the seventh edition of the Encyclopaedia Britannica which was also issued separately. Cleghorn was an actuary of the Edinburgh National Security Savings Banks, and won a high reputation for his ability and achievements in the actuarial and accounting fields. -- Everett E. Edwards.

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### PLANT SCIENCE LITERATURE

Beginning January 1935 the following changes were made in the mimeographed literature lists issued by the Bureau of Plant Industry library. "Agronomy Current Literature" was discontinued, the last issue being v. 9, no. 23, Dec. 10-22, 1934. The more important contributions formerly indexed for this list are now included in "Plant Science Literature" which is a new title for "Botany Current Literature". This list of botanical publications was started in 1913 as "Current Author Entries", the title being changed in 1925 to "Botany Current Literature". The entries are mainly those indexed for the botanical catalog of the bureau. They are arranged by the name of the periodical

PUBLICATIONS BY U. S. DEPARTMENT OF AGRICULTURE WORKERS  
APPEARING OUTSIDE THE DEPARTMENT

Office of the Secretary

WILSON, M. L. Agricultural adjustment; some problems ahead. Com. Fert. 50: 14-16, 18-25. Jan. 1933.

Agricultural Adjustment Administration

DAVIS, C. C. An accounting to partners. Northwest, Miller 180: 496-497. Nov. 21, 1934.

Bureau of Agricultural Economics

EDWARDS, E. E. A bibliography of the writings of Professor Ulrich Bonnell Phillips. (Advertised from the London (Ontario) Free Press, Feb. 27, 1934.) Agr. Hist. 8: 196-218. Oct. 1934. (Introduction, by Fred Landon, of the Univ. of Western Ontario, 196-199+)

----- Book review. (The civilization of the old Northwest: a study of political, social, and economic development, 1788-1812, by Beverley W. Bond, Jr. N. Y., Macmillan Co., 1934. 543 p.) Agr. Hist. 8: 224-225. Oct. 1934.

----- Book review. (Essays upon field husbandry in New England, and other topics, 1748-1762, by Jared Eliot. Edited by Harry J. Carman and Rexford G. Tugwell, with biographical sketch by Rodney H. True. (Columbia Univ. Studies in the History of American Agriculture, 1.) N. Y., Columbia Univ. Press, 1934. 261 p., illus.) Agr. Hist. 8: 223-234. Oct. 1934.

----- Book review. (A history of Ohio, by Eugene Holloway Roseboom and Francis Phelps Weisenburger. (Prentice-Hall History Series, Carl Wittke, editor.) N. Y., Prentice-Hall, 1934. 545 p., maps.) Agr. Hist. 8: 225. Oct. 1934.

----- Book review. (A history of West Virginia, by Charles Henry Ambler. (Prentice-Hall Hist. Series, Carl Wittke, editor.) N. Y., Prentice-Hall, 1933. 622 p., illus.) Agr. Hist. 8: 225-226. Oct. 1934.

----- Book review. (Zenon papyri: business papers of the Third Century B. C. dealing with Palestine and Egypt. Edited with introductions and notes by William Linn Westermann and Elizabeth Sayre Hasenochrl. (Columbia Papyri: Greek Series, no. 3.) N.Y., Columbia Univ. Press, 1934. 177 p.) Agr. Hist. 8: 223. Oct. 1934.

HARPER, F. H. Cotton classing helps price. Prog. Farmer and South. Ruralist. Miss. Vol. Ed. 49(11): 12. Nov. 1934.

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- DAHLBERG, A. C. The year's research record: a guide for the busy manufacturer to what the government, college, and plant laboratories have found out in the course of experimental work on ice cream and related subjects during the last twelve months. Ice Cream Trade Jour. 30(10): 27-29. Oct. 1934.  
GAMBRELL, F. L. Gladiolus thrips control studies and observations on bulb mite infestation. Jour. Econ. Ent. 27(6): 1150-1166. Dec. 1934.  
ISENHOUR, L. L., and HORSFALL, J. G. Copper analysis of foliage sprayed with cuprous oxide. Phytopathology 24(12): 1383. Dec. 1934. (Phytopathological notes)

New York (Cornell)

- ROTTENSTEIN, K. V., and MAYNARD, L. A. The assimilation of phosphorus from dicalcium phosphate, C.P., tricalcium phosphate, C.P., bone dicalcium phosphate and cooked bonemeal. Jour. Nutrition 8(6): 715-730. Dec. 10, 1934. (K. V. Rottenstein, Cornell Univ.)  
SLOAN, H. J. The seasonal variation in the antirachitic effectiveness of sunshine. Jour. Nutrition 8(6): 731-749. Dec. 10, 1934.  
TROY, H. C., and SHARP, P. F. Detection of lactic acid in milk and cream. Jour. Dairy Sci. 17(12): 759-762. Dec. 1934. (H. C. Troy, Cornell Univ.)  
WELCH, D. C. The range and importance of *Nectria canker* on hardwoods in the northeast. Jour. Forestry 32(9): 997-1002. Dec. 1934.

ARTICLES BY STATE AGRICULTURAL EXPERIMENT STATION WORKERS  
(continued)

North Carolina

METCALF, Z. P., and NORTON, G. The Cercopoidea (Homoptera) of China. *Lingnan Sci. Jour.* 13(3): 367-429. July 30, 1934.

North Dakota

KELLOGG, C. E. Morphology and genesis of the solonetz soils of western North Dakota. *Soil Sci.* 38(6): 483-501. Dec. 1934.

MANGELS, C. E. Varietal and regional variation in properties of wheat starches. *Cereal Chem.* 11(6): 571-585. Nov. 1934.

Ohio

BAYFIELD, E. G. The viscosity test. *Cereal Chem.* 11(6): 637-647. Nov. 1934.

HUBER, L. L., and SLEESMAN, J. P. Technique of field experimentation in entomology. I. Some principles involved in a well-planned experiment. *Jour. Econ. Ent.* 27(6): 1168-1170. Dec. 1934.

RECORD, P. R., BETHKE, R. M., and WILDER, O. H. M. Effect of method of manufacture on the nutritive value of fishmeals as determined by growth studies with chicks. *Jour. Agr. Research [U.S.]* 49(8): 715-722. Oct. 15, 1934.

WILDER, O. H. M., BETHKE, R. M., and RECORD, P. R. Effect of method of manufacture on the nutritive value of fishmeals as determined by nitrogen-balance studies with rats. *Jour. Agr. Research [U.S.]* 49(8): 723-730. Oct. 15, 1934.

Oklahoma

DANIEL, H. A., and HARPER, H. J. The relation between total calcium and phosphorus in mature prairie grass and available plant food in the soil. *Jour. Amer. Soc. Agron.* 26(12): 986-992. Dec. 1934.

Oregon

JOHNSON, W. T. Fowl pox. *Nulaid News* 13(8): 7. Nov. 1934.

Pennsylvania

ANDERSON, A. K. (With K. EMMART, Penn. State College) Relation of certain amino acids to carbon dioxide and mycelium production of *Fusarium oxysporum*. *Plant Physiol.* 9(4): 823-829. Oct. 1934.

KRISS, M., and MILLER, R. C. The derivation of factors for computing the gaseous exchange and the heat production in the metabolism of casein by the albino rat. *Jour. Nutrition* 8(6): 669-674. Dec. 10, 1934.

South Carolina

NETTLES, W. C. An unusual outbreak of stable fly and its control. *Jour. Econ. Ent.* 27(6): 1197-1198. Dec. 1934. (Scientific notes)

WATTS, J. G. A comparison of the life cycles of *Frankliniella tritici* (Fitch), *F. fusca* (Banks) and *Thrips tabaci* Lind. (Thysanoptera-Thripidae) in South Carolina. *Jour. Econ. Ent.* 27(6): 1158-1159. Dec. 1934.

South Dakota

FRANKE, K. W. and POTTER, V. R. A new toxicant occurring naturally in certain samples of plant foodstuffs. III. Hemoglobin levels observed in white rats which were fed toxic wheat. *Jour. Nutrition* 8(6): 615-624. Dec. 10, 1934.

FRANKE, K. W., and MOXON, A. L. A new toxicant occurring naturally in certain samples of plant foodstuffs. IV. Effect of proteins on yeast fermentation. *Jour. Nutrition* 8(6): 625-632. Dec. 10, 1934.

ARTICLES BY STATE AGRICULTURAL EXPERIMENT STATION WORKERS  
(continued)

Utah

- KNOWLTON, G. F., STANFORD, J. S., and SMITH, C. F. Birds as predators of the beet leafhopper. *Jour. Econ. Ent.* 27(6): 1196-1197. Dec. 1934. (Scientific notes)  
STEWART, G. Effects of inbreeding on variability in alfalfa. *Jour. Agr. Research [U. S.]* 49(8): 669-694. Oct. 15, 1934.

Washington

- DCNEEN, L. D. Method for the preparation of green plant material for the extraction of juices. *Plant Physiol.* 9(4): 839-843. Oct. 1934.

Wisconsin

- BAUMANN, C. A., RIISING, B. M., and STEENBOCK, H. Fat-soluble vitamins. XIII. The absorption and storage of vitamin A in the rat. *Jour. Biol. Chem.* 107(3): 705-715. Dec. 1934.  
DONER, M. H. Observations on the biology of *Microbracon pygmaeus* (Prov.), an important parasite of *Coleophora pruniella* Cl. *Ann. Ent. Soc. Amer.* 27(3): 435-442. Sept. 1934.  
ELVEHJEM, C. A., HART, E. B., JACKSON, H. C., and WECKEL, K. G. The nutritional value of milks - raw vs. pasteurized and summer vs. winter. *Jour. Dairy Sci.* 17(12): 763-770. Dec. 1934.  
HECK A. F. Effect of the degree of base saturation of a soil on its capacity to fix phosphorus in difficultly available form. *Soil Sci.* 38(6): 463-470. Dec. 1934.  
HENDRICKSON, A. A., BALDWIN, I. L., and RIKER, A. J. Studies on certain physiological characters of *Phytomonas tumefaciens*, *Phytomonas rhizogenes* and *Bacillus radiobacter*. *Jour. Bact.* 28(6): 597-618. Dec. 1934.  
LILLY, J. H., and FLUKE, C. L. A progress report on the control of the cherry case bearer (*Coleophora pruniella*, Clem.) in Wisconsin. *Jour. Econ. Ent.* 27(6): 1142-1147. Dec. 1934.  
MEHLICH, A., FRED, E. B., and TRUOG, E. The Cunninghamella plaque method of measuring available phosphorus in soil. *Soil Sci.* 38(6): 445-461. Dec. 1934 (A. Mehlich, Univ. Wis.)  
SAGEN, H. E., RIKER, A. J., and BALDWIN, I. L. Studies on certain physiological characters of *Phytomonas tumefaciens*, *Phytomonas rhizogenes*, and *Bacillus radiobacter*, Part I. *Jour. Bact.* 28(6): 571-595. Dec. 1934.  
SELB, J., BAUMANN, C. A., and STEENBOCK, H. Fat-soluble vitamins. XLI. The carotene and vitamin A content of colostrum. *Jour. Biol. Chem.* 107(3): 697-703. Dec. 1934.

Wyoming

- DUNEWALD, T. J. Soil factors in germination of pine seeds. *Univ. Wyo. Pub. in Sci., Bot.* v. 1, nos. 7, 8, 9, 10 and 11: 267-274. Aug. 1934.  
NELSON, A. Rocky Mountain herbarium studies. II. *Amer. Jour. Bot.* 21 (9): 573-582. Nov. 1934.

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## MISCELLANY

A pamphlet entitled "List of Different Publications Received in the Library (Newspaper Section) of the Service of Agricultural Publications and Library", recently issued by the Ministerio de Agricultura, Madrid, Spain, contains a preface in six different languages. The English preface reads as follows: "The metamorphosis and actual development of the Spanish Agriculture has determined an intensity in all the services of Agriculture and in consequence a pressing need of information every day more extensive. The Service of Agricultural Publications and Library of the General Government of Agriculture, besides the various publications which it publishes of a technical and divulger character, has particularly developed its AGRICULTURAL LIBRARY (Newspaper section), which has at present 620 national and foreign journals at the PUBLICS DISPOSAL from 10:30 a.m. to 2 p.m. in the Lecture Room of our Library. This Library also disposes of an hemerological index, classified by subjects, where all titles, name of author of each article, title and date of Journal are inscribed, which can be easily and surely handled and which has proved a great success, as demonstrated by the rapidly increasing number of readers. This Library hopes to collect all important publications on Agricultural matters in the different countries and to establish the most up-to-date instrument for information and consultation. This Library, besides the considerable quantity of volumes which form its archives and its constant and pusillanimous care in the compilation and search of hemerological subjects (the following list is only of this year) in its quality of AGRICULTURAL LIBRARY (Newspaper section) can be considered as one of the most complete in the world, if not the best of all, according to competent opinions."

"Consumers' Guide", formerly issued in mimeographed form by the Agricultural Adjustment Administration of the U. S. Department of Agriculture, was changed to a printed publication with vol. 2, no. 2.

A souvenir booklet entitled "Golden Anniversary of the Association of Official Agricultural Chemists, 1884-1934" has been issued by the Association in connection with the celebration of its 50th meeting. This includes a complete list and a photographic record of all the officers of the Association since the time of its organization, and also the address of Dr. C. A. Browne entitled "Reminiscences of the early friends of the Association" which he delivered at the memorial dinner on October 30.

Miss Annie M. Avakian has recently been appointed as Junior Librarian at the Institute of Plant Genetics at Placerville, California.

The 11th International Horticultural Congress will be held in Rome, September 16-21, 1935. The Congress will be followed by excursions on September 23-25. The Congress is organized under the auspices of the Royal Ministry of Agriculture and Forests and of the International Committee for Horticultural Congresses, by the International Federation of Technical Agriculturists, in accordance with the International Institute of Agriculture and the interested Fascist Confederations.

## UNION LIST OF FORESTRY SERIALS

Finding that the Union List of Serials, published under the auspices of the American Library Association, does not note many of the reports and publications which are constantly being requested, the Forest Service Library of the U. S. Department of Agriculture has undertaken to compile a Union List of Forestry Serials held by the various libraries throughout the United States and Canada. This will be valuable not only in locating material for interlibrary loan, but will also serve as a checklist of publications which have actually been issued, as well as being of assistance in rounding out and completing sets.

The citations have been compiled from the Forest Service Library shelf list and the Union List of Serials. The library key symbols have been added where available to simplify the work required in checking by the cooperating libraries. These lists have been sent to 130 libraries throughout the United States and Canada, with the request that they note their holdings. The total returns will be compiled in one final report, a copy of which will be sent to each library taking part in the project. As the final work is to be finished not later than June 1, 1935, all sheets are to be returned to Washington by March 1, 1935.

As it is difficult to reach all the libraries which are interested and have material in this specialized field, it is felt that the mailing list was by no means complete. Copies of the list can be obtained by any libraries which have not already received it. Requests should be addressed to the Librarian, Forest Service, U. S. Department of Agriculture, Washington, D. C.

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## ANALYTICAL BIBLIOGRAPHY OF UNIVERSAL COLLECTED BIOGRAPHY

An "Analytical Bibliography of Universal Collected Biography, Comprising Books Published in the English Tongue in Great Britain and Ireland, America and the British Dominions", has been compiled by Phyllis M. Riches and published by the Library Association, Chaucer House, Malet Place, London, W. C. I. H. W. Wilson Company are the American agents. There are two main parts: The Index of people written about arranged in alphabetical order and having date of birth and death, where these are known, and a short description, such as "Poet" or "Statesman"; and second, a Bibliography of the works dealt with, being partly evaluative. Three appendices contain (a) a chronological list of persons dealt with, arranged according to centuries, (b) an index of persons dealt with, arranged alphabetically under their profession or trade, (c) an author and subject bibliography of biographical dictionaries. (Industrial Arts Index, v. 23, no. 1, December 1934)

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LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING DECEMBER 1934\*

California

Elements of wine making. M. A. Joslyn and W. V. Cruess. (Calif. Agr. Col. Ext. Circ. 188.) Berkeley, 1934. References, p. 62-63.

Colorado

Raising the quality standards of market turkeys in Colorado. (Colo. Agr. Col. Ext. Circ. 80-A.) Fort Collins, 1934.

Florida

Rose growing in Florida. W. L. Floyd and J. V. Watkins. (Fla. Univ. Agr. Ext. Bul. 78.) Gainesville, 1934. A revision of Bul. 59.

Georgia

Forest management in Georgia. D. Barrett. (Ga. Agr. Col. Ext. Bul. 446.) Athens, 1934.

Canning, drying, brining; Conserve surplus fruits and vegetables. L. Collier. (Ga. Agr. Col. Ext. Circ. v. 22, no. 255.) Athens, 1934.

Apple culture in Georgia. T. H. McHatton. (Ga. Agr. Col. Ext. Circ. v. 22, no. 258.) Athens, 1934.

Iowa

The chinch bug in Iowa. C. J. Drake and others. (Iowa Agr. Col. Ext. Circ. 199.) Ames, 1934.

Feeding and management of hens. E. W. Henderson and W. M. Vernon. (Iowa Agr. Col. Ext. Circ. 200.) Ames, 1934.

Noxious and other bad weeds of Iowa. R. H. Porter. (Iowa Agr. Col. Ext. Circ. 201.) Ames, 1934.

Temporary silos. E. N. Shultz and B. T. Virtue. (Iowa Agr. Col. Ext. Bul. [i. e. Circ.] 202.) Ames, 1934.

References, p. 16.

Handling drouth injured corn. H. D. Hughes and R. Beresford. (Iowa Agr. Col. Ext. Circ. 203.) Ames, 1934.

Feeding dairy cattle in drouth and semi-drouth areas. E. N. Shultz and C. Y. Cannon. (Iowa Agr. Col. Ext. Circ. 204.) Ames, 1934.

Crop production in the chinch bug area in Iowa. E. R. Henson and C. J. Drake. (Iowa Agr. Col. Ext. Circ. 205.) Ames, 1934.

Drouth emergency rations for Iowa livestock. C. C. Culbertson and others. (Iowa Agr. Col. Ext. Circ. 206.) Ames, 1934.

The Iowa farm outlook for 1935. L. K. Soth. (Iowa Agr. Col. Ext. Circ. 207.) Ames, 1934.

Iowa farm and home extension programs, 1935. (Iowa Agr. Col. Ext. C-360.) Ames [1934]

Mimeographed.

\*Prepared in the Office of Experiment Stations Library

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING DECEMBER 1934  
(continued)

Kentucky

Corn project, 4-H clubs. E. J. Kinney and E. E. Fish. (Ky. Agr. Col. Ext. Circ. 82, 5th ed.) Lexington, 1934.

Michigan

Recognizing suitable furnishings. G. Reis. (Mich. State Col. Ext. Course Notes 116.) East Lansing, 1934.

Minnesota

Cut worms and army worms. W. C. Cook. (Minn. Univ. Agr. Ext. Circ. 48.) University Farm, St. Paul, 1934.

Food and seed for 1934-1935. (Minn. Univ. Agr. Ext. Circ. 49.) University Farm, St. Paul, 1934.

Sediment test for cream. H. Macy and S. T. Coulter. (Minn. Univ. Agr. Ext. Folder 50.) University Farm, St. Paul, 1934.

Temperatures of animal shelters. L. W. Neubauer. (Minn. Univ. Agr. Ext. Agr. Engin. News Letter no. 32.) University Farm, St. Paul, 1934.

Possible savings in the cost of governmental services arising from the relocation of an isolated community. M. M. Regan. (Minn. Univ. Agr. Ext., Minn. Farm Business Notes no. 143.) University Farm, St. Paul, 1934.  
Mimeoographed.

Missouri

Commercial fertilizers for general field crops. M. F. Miller. (Mo. Agr. Col. Ext. Circ. 315.) Columbia, 1934.

New Jersey

Lime - for soil improvement. H. R. Cox. (N. J. Agr. Col. Ext. Bul. 146.) New Brunswick, 1934.

New York

Factors affecting costs and returns in producing milk. L. C. Cunningham. (N. Y. Agr. Col. (Cornell) Ext. Bul. 307.) Ithaca, 1934.

The transportation of milk to the New York market. H. R. Varney. (N. Y. Agr. Col. (Cornell) Ext. Bul. 308.) Ithaca, 1934.

How to meet the hay shortage on New York farms. Department of Animal Husbandry. (N. Y. Agr. Col. (Cornell) Ext. Bul. 309.) Ithaca, 1934.

The New York state 1935 agricultural outlook. (N. Y. Agr. Col. (Cornell) Ext. Bul. 310.) Ithaca, 1934.

Lenders' guide for standard to health achievement record. R. B. White. (N. Y. Agr. Col. (Cornell) Junior Ext. Bul. 47.) Ithaca, 1934.

Ohio

Knowing and using eggs. O. Hughes and R. E. Cray. (Ohio Agr. Col. Ext. Bul. 157.) Columbus, 1934.

The agricultural outlook for 1934-35. (Ohio Agr. Col. Ext. Timely Econ. Inform. for Ohio Farmers no. 83.) Columbus, 1934.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

of the U. S. Department of Agriculture

received during December 1934, exclusive of bibliographies\* and current issues of serials.\*\*

Office of the Secretary

The challenge of Protestantism. Address of Henry A. Wallace at a dinner given in his honor by the World alliance for international friendship through the churches, New York City, Dec. 7, 1934. 17 p.

High freight rates as a retarding factor in agricultural and industrial recovery. By H. A. Wallace. A statement presented at Hearings before the Interstate commerce commission on Increase in freight rates and charges, Dec. 7, 1934. 8 p.

Remarks of Henry A. Wallace before the American statistical association, Chicago, Illinois, December 28, 1934. 7 p.

Some aspects of a national land program. An address by M. L. Wilson before the American farm bureau federation, at Nashville, Tenn., Dec. 12, 1934. 22 p.

Agricultural Adjustment Administration

A.A.A. litigation during the year 1934. 9 p.

The corn-hog adjustment program for 1935. 5 p.

The cotton program and the Bankhead act. By Cully A. Cobb. Talk before the Extension section, Land-grant colleges association, Nov. 19, 1934. 1934. 6 p. (Issued by Cotton Production section)

Facts relating to the agricultural situation in 1934. Statement prepared for hearings before the Interstate commerce commission on increases in freight rates and charges, 1934. Ex parte no. 115. By L. H. Bean, 1934. 67 p.

Marketing agreements and licenses: their role in agricultural recovery. Address by H. R. Tolley before the American farm bureau federation, at Nashville, Tenn., Dec. 11, 1934. 18 p.

Meeting the farmers' problem. By Chester C. Davis. Address delivered before the American farm bureau federation, at Nashville, Tenn., Dec. 11, 1934. 1934. 18 p.

Bureau of Agricultural Economics

Agricultural production compared with railway traffic in farm products during the depression. 1934. 28 p.

Corn, oats, barley, rye, and flax outlook charts, for use with the Agricultural outlook for 1935. 1934. 18 p.

\*Bibliographies included in general list of bibliographies on page 12

\*\*For a list of the principal series issued regularly, see v. 9, no. 10, p.354

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics  
(continued)

Illustrative comparisons between freight rates on and farm prices of fruits and vegetables. 1934. 17 p.

Illustrative comparisons between freight rates on and retail prices of farm products. 1934. 14 p.

List of agricultural economic reports and services of the Bureau of agricultural economics. Feb. 1934. 1934. 51 p. (Issued by Division of economic information)

Potatoes, and truck crops outlook charts, for use with the Agricultural outlook for 1935. 1934. 34 p.

Poultry and eggs outlook charts, for use with Agricultural outlook for 1935. 1934. 19 p.

Prices paid by farmers for household articles, January 24-27, 1934. 1934. 9 p. (Issued by Division of crop and livestock estimates)

Protection afforded grain users by the United States grain standards act. 1934. 6 p. Folder no. 6, Grain standards educational committee. (Issued by Grain division)

Regulations of the Secretary of Agriculture governing the inspection and certification of rough, brown, and milled rice. As amended, effective Nov. 12, 1934. 15 p.

Research in progress in the Bureau of agricultural economics, July 1, 1934. Prepared for use of research workers in the Bureau of agricultural economics, the state agricultural colleges and experiment stations, and other research agencies in agricultural economics. 79 p.

Revised estimates of tame hay acreage, yield and production, 1866-1922. 1934. 56 p.

Bureau of Animal Industry

Outline for conducting a scrub-sire trial. By D. S. Burch. 1934. 20 p. Material prepared to help bring about livestock improvement through the replacement of scrub sires by good purebreds.

Bureau of Entomology and Plant Quarantine

A device for recording humidity in among leaves of plants. By Theo. E. Bronson. 1934. 2 p. Et-28. (Issued by Division of truck crop and garden insects)

Graduated centrifuge tube for measuring masses of aphids. By J. E. Dudley. 1934. 1 p. Et-26. (Issued by Division of truck crop and garden insects)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Entomology and Plant Quarantine  
(continued)

A list of United States patents issued from 1917 to 1933 inclusive relating to insecticide sprayers, part I-II, Compiled by R. C. Roark. 1934. 15 p. Patent list no. 33-34. (Issued by Insecticide division)

A list of United States patents issued from 1917 to 1933 inclusive relating to driers for washed fruit. Compiled by R. C. Roark. 1934. 4 p. Patent list no. 35. (Issued by Insecticide division)

Extension Service

Boys' and girls' 4-H club work, 1933. By Madge J. Reese. 1934. 7 p.  
(Extension service circular 207)

Federal housing administrative program in relation to the rural home. By F. P. Bartlett. 1934. 7 p. A talk before the Farm family living section of the National outlook conference, Washington, D. C., Oct. 31, 1934.

Bureau of Plant Industry

Air-cooled apple storage houses. By J. R. Magness. 1934. 6 p. (Issued by Division of fruit and vegetable crops and diseases)

Weather Bureau

Instructions for daily transmission of weather observations. 1934. 15 p.

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LOST BOOKS

The books listed below cannot be found. It will be appreciated if anyone having information in regard to them will notify the Loan Desk of the main Library in the case of the first item, and Mr. W. A. Cheesman of the Bureau of Biological Survey, in the case of the second item:

American Society for horticultural science. Proceedings, v. 17-18.  
1920-21.

Baker, Marcus. Geographic dictionary of Alaska. Bull. 299, U. S. Geological Survey, 2d ed. 1906. Copy 1.

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## MOVING OF THE LIBRARY

On December 7, 1934 the Library began the moving of its collections to the new library stacks. The moving was completed by the end of the year but about two weeks more have been required for necessary changes in the reference rooms and the work rooms. The painting of the walls of the stack space is still to be done.

The stacks comprise three decks - A, B and C, A being the bottom deck, B the intermediate deck, and C the top deck on a level with the first floor of the South Building. The main entrance to the stacks is through the Public Catalogue Room (room 1052) but there are also entrances from the Reference Room on the west side and from the Periodical Division and the Loan Desk Room on the east side. Deck A, which is the largest, contains 921 sections or approximately 9200 shelves, exclusive of the 200 shelves for oversize agricultural newspapers; Deck B is the next largest, containing 436 sections, or approximately 4600 shelves, exclusive of 2000 shelves for commercial newspapers; Deck C contains 251 sections or approximately 3000 shelves. It is estimated that there are now approximately 180,000 volumes in the stacks and that the space available will provide room for nearly twice that number.

On Deck A are shelved the following classes: Agriculture, horticulture, forestry, government documents, economics, statistics, commerce, finance, engineering, and useful arts. On Deck B are classes for natural history, zoology, chemistry, medicine and hygiene, the newspaper collections, and the rare books. On Deck C are the books and periodicals on botany, the general scientific periodicals, the learned society publications, the set of Department publications, the State experiment station publications, and the publications of the State boards of agriculture.

On Decks A, B and C at the south end of the stacks, next to the windows, are 22 cubicles for readers, and on Decks B and C, on the east side, there are in addition, 16 cubicles on each deck, or 54 cubicles in all. There are also tables scattered throughout the stacks.

In view of the improved facilities for the using of the books in the Library, it is hoped that more readers will come to the Library to consult the books rather than have them sent to their offices, particularly if they do not need the books for extended use.

### Reference Rooms

No change has been made in the location of the reference rooms, those being located as heretofore on the east side of wing 5 in rooms 1505-1525. The Map Room is located next to the south end of the Reference Room. The Bibliography Room is at the north end in room 1060. The Public Catalogue is in room 1052.

### Loan Desk Rooms

The loan desk for books is in room 1044, next to the Public Catalogue Room on the north corridor; the charging desk for current periodicals is in room 1410. The book delivery room, containing the pigeon holes for the books and periodicals to be delivered by messenger to the various bureaus and offices, is room 1404 in wing 4, near the elevators.

MOVING OF THE LIBRARY  
(continued)

Periodical Reading Room

No change has been made in the location of the Periodical Reading Room, this being located as heretofore on the west side of wing 4 in rooms 1416-1430. The periodicals are now, however, much more convenient for consultation as they are filed in the steel cases originally intended for them and all are within easy reach. The current issues of many of the periodicals of special interest to the various bureaus are still filed in the libraries of the bureaus. The regular circulation of current periodicals to the offices of the bureaus is for the most part handled by the libraries of the bureaus.

Office and Work Rooms

The Catalogue Division is located in rooms 1045-1055. The Periodical Division in part is in rooms 1410-1416 and in part in rooms 1434-1444, the latter space being devoted to the Binding Section.

The office of the Librarian (Miss Claribel R. Barnett) is in rooms 1405-1407 and the Business Office (Miss Ethel E. Smith, in charge, Mr. Richard T. Umhau, in charge of accounts) is in rooms 1409-1415. The office of the Associate Librarian (Miss Emma B. Hawks) is in room 1052A. The office of the Chief of the Catalogue Division (Miss Helen M. Thompson) is in room 1045, and the office of the Chief of the Periodical Division (Miss Lydia K. Wilkins) is in room 1416.

BUREAU LIBRARIES

For the greater convenience of the Department workers, there are branch libraries in all of the bureaus, with the exception of the Bureau of Biological Survey. A short description of the work and collections of each of the branch libraries follows:

Agricultural Economics Library

The library of the Bureau of Agricultural Economics is still located on the third floor of the fourth wing but it has been moved further to the south. The office of the Librarian (Miss Mary G. Lacy) is in room 3445. The loan desk is in room 3434, and the periodical division in room 3439. The bulk of the collection of the Department on economics and statistics, finance, commerce, and rural sociology is filed in the library of the Bureau of Agricultural Economics. The library of the bureau also contains the special catalogues and indexes to the economic literature.

The Division of Cotton Marketing library, a branch of the bureau library and administered as a special reference service for the Division of Cotton Marketing, is still located at 300 Linworth Place, Southwest, in room 209. The Librarian is Miss Emily L. Day.

MOVING OF THE LIBRARY  
(continued)

Agricultural Engineering Library

At the time of the moving of the Bureau of Agricultural Engineering to the South Building during the past summer, the library of the bureau was also moved and is now located with the bureau, in rooms 2246-2252. The library contains a small working collection consisting of reference books and the books and periodicals most frequently used in the work of the bureau. The office of the Librarian, Mrs. Dorothy W. Graf, is in room 2252.

Animal Industry Library

The library of the Bureau of Animal Industry is still located in the East Wing of the Administration Building, in room 246. The bureau does not maintain a collection of books but has a library staff to attend to its reference work, the circulation of current periodicals, and the work on the extensive index of veterinary literature which is filed in the bureau library.

The library collection of the Division of Animal Husbandry, located, as heretofore, in Room 2-202, Building F, 7th and Constitution Avenue, Northwest, is now devoted almost entirely to the breeding and feeding of livestock. With the exception of some of the current volumes, the herd and stud books, formerly filed in the division library, were moved last summer to the main Library, on account of fire hazard, the division library being housed in a non-fireproof building. The librarian of the division, Miss Jessie Urner, attends to the general library work of the division, including the circulation of the current periodicals to the workers in the division.

Chemistry and Soils Library

The library of the Bureau of Chemistry and Soils at the present time has not been moved, as the chemical laboratories are still in their old location, 216 13th Street. The collection filed in the bureau consists of about half the chemical books and periodicals owned by the Department. The Librarian of the bureau, Miss Minerva G. Beckwith, is in room 210.

The library of Fertilizer Investigations is still in its old location, the American University. The librarian is Mrs. Lee Garby.

Dairy Industry Library

The library of the Bureau of Dairy Industry has been moved to rooms 1068-1070 on the north corridor between wings 5 and 6, near the main Library and the new offices of the Bureau of Dairy Industry in the 6th wing. It contains the indexes to dairy literature and a small collection of the most frequently used books and periodicals of special interest to the bureau. The Librarian is Miss Carrie B. Sherfy.

MOVING OF THE LIBRARY  
(continued)

Entomology and Plant Quarantine Library

The library of the Bureau of Entomology and Plant Quarantine has been moved to rooms 1417-31 on the east side of the fourth wing, adjoining the main Library. It contains the catalogues and indexes to entomological literature and the bulk of the entomological books and periodicals. The entrances to the library are rooms 1419 and 1423. The office of the Librarian, Miss Mabel Colcord, is room 1431.

The apicultural collections are still located at Somerset, Maryland, with the offices of the Division of Bee Culture. The Librarian of the division is Miss Ethel Coon.

Experiment Stations Library

The library of the Office of Experiment Stations is with the Office on the fifth floor of the fifth wing, in rooms 5501-5521. The office of the Librarian, Miss Cora L. Feldkamp, is in room 5509. The library has charge of the work connected with the circulation of books and periodicals for abstracting in the Experiment Station Record and to the Office of Cooperative Extension Work, prepares the current lists of State experiment station and extension publications, is responsible for the completion of the files of these publications, and has charge of the reference work of the office. The file of State experiment Station publications is strictly a reference set and cannot be circulated. The set for circulation is in the main Library.

Forest Service Library

The Forest Service Library is with the offices of the Forest Service in the Atlantic Building, 930 F Street, Northwest. The bulk of the Department's collections relating to forestry and allied subjects is filed in the bureau library. The Librarian is Miss Helen Moore.

Home Economics Library

The Bureau of Home Economics library is located in rooms 6053-6059 on the sixth floor in the quarters of the bureau. Its collections cover the subjects of clothing, textiles, food, nutrition, household refrigeration, household management, and family relationships. The office of the Librarian, Mrs. Mamie F. Nystrom, is in room 6053.

Horticultural Trade Catalogues

The collection of horticultural trade catalogues numbering approximately 50,000, has been moved to rooms 1506-1510 on the first floor of wing 5, opposite the reference Room of the main Library. The collection is maintained as a cooperative undertaking of the main Library and the Office of Fruit and Vegetable Crops and Diseases of the Bureau of Plant Industry. Miss M. R. Newman, of the Office of Fruit and Vegetable Crops and Diseases, is in charge of the collection.

MOVING OF THE LIBRARY  
(continued)

Law Library

The library of the Solicitor's Office contains the bulk of the law books belonging to the Department and is located, as in the past, in the Administration Building, on the third floor in rooms 428-430, in charge of Mr. F.D. Scott.

Plant Industry Library

The offices of the library staff of the Bureau of Plant Industry have been moved from the West Wing to rooms 1057-1069 on the north corridor of the South Building, near the main Reference Room. The office of the Librarian, Miss Jessie N. Allen, is in room 1065. The assistant handling the circulation of periodicals to the bureau is in room 1067. The office of Miss Alice C. Atwood, who is in charge of the botanical catalogue and the preparation of the mimeographed "Plant Science Literature" lists is in room 1059. The botanical catalogue is located in the Public Catalogue Room (room 1052) of the main Library, adjoining the general catalogue of the Library, in the west end of the room.

Public Roads Library

The library of the Bureau of Public Roads has not been moved. It is still with the bureau on the first floor of the Willard Building, 515 14th Street, Northwest. In the library are filed the Department's collections relating to highways and bridges, highway transport, highway safety, traffic and traffic planning, and related subjects. The Librarian is Miss O. Louise Evans.

Weather Bureau Library

The Weather Bureau library is located at 34th and M Streets, Northwest, with the offices of the bureau. It contains the Department's entire collection of meteorological literature, consisting of approximately 50,000 volumes. The library maintains an extensive catalogue of meteorological literature, and various indexes. A record of the books in the Weather Bureau library is not contained in the Department Library catalogue. The Librarian of the Bureau is Prof. C. F. Talman.

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Architecture, Housing

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Botany

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Dairying

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- Canning meat, poultry and fish. R. Russell. (Wash. State Col. Ext. Bul. 199.) Pullman, 1934.

West Virginia

- Dimes and dollars day by day. G. Humphreys. (W. Va. Agr. Col. Ext. Good Living Ser. III, Lesson no.1, Adventures in Better Living.) Morgantown, [1935?]
- Spending our clothing money wisely. G. Humphreys. (W. Va. Agr. Col. Ext. Good Living Ser. III, Lesson no.2, Adventures in Better Living.) Morgantown, [1935?]

Wisconsin

- The market for mid-western potatoes. H. H. Bakken. (Wis. Agr. Col. Ext. Circ. 272.) Madison, 1934.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
of the U. S. Department of Agriculture  
received during January 1935, exclusive of bibliographies\* and current  
issues of serials.\*\*

Office of the Secretary

Agricultural adjustment - some problems ahead. By M. L. Wilson. An address delivered at the annual farm and home week at the College of Agriculture, University of Illinois, Jan. 18, 1935. 19 p.

More abundant living. Abstract of talk by Mordecai Ezekiel before National council of teachers of English, Nov. 29, 1934. 7 p.

The progressive tradition. Address of Rexford G. Tugwell, Union college, Schenectady, N. Y., Jan. 25, 1935. 21 p.

Price inflexibility and the requirements of a stabilizing monetary policy. Address of Gardiner C. Means before the American statistical association at Chicago, Illinois, Dec. 27, 1934. 17 p.

Agricultural Adjustment Administration

Basic questions and answers on agricultural adjustment. 1935. 2 parts.

The consumer's place in the organization of the new deal. Address of Thomas C. Blaisdell, Jr., before American statistical association, Chicago, Illinois, Dec. 29, 1934. 10 p.

Functions and responsibilities of the county control associations. Speech by Claude R. Wickard at Farmers and homemakers week, St. Paul, Minnesota, Jan. 17, 1935. 10 p.

Informing the public about the A.A.A. Remarks of Alfred D. Stedman at a round table on public relations of Federal administrative agencies at the annual convention of the American political science association, Chicago, Dec. 27, 1934. 20 p.

A resume of executive orders and proclamations pertaining to A.A.A. and agriculture generally, Jan. 1, 1933 - Jan. 1, 1935. 1935. 9 p.

Some approaches to agricultural adjustment as applied to potatoes in the United States. Prepared at the request of the Potato program development committee. By E. W. Braun and H. A. Richardson. 1935. 6 p. (Issued by General crops section)

What is ahead for wheat? Speech by Chester C. Davis, before Kansas agricultural convention, Topeka, Kansas, Jan. 11, 1935. 14 p.

Working toward stability for the dairy industry. Adapted from address of A. H. Lauterbach before National cooperative milk producers' federation, Syracuse, N.Y., Nov. 13, 1934. 5 p. (Discussion statement no. 13)

\*Bibliographies included in general list of bibliographies on page

\*\*For a list of the principal series issued regularly, see v. 9, no. 10, p. 354

SELECTED LIST OF MIMICRAPIED PUBLICATIONS  
(continued)

Bureau of Agricultural Economics

Current problems in farm insurance. By V. N. Valgren. 1934. 9 p. Address, Farm group meeting, Annual convention national association mutual insurance companies, Savannah, Ga., Nov. 13, 1934. (Issued by Division of agricultural finance)

Direct marketing of hogs: summary, conclusion and recommendations. 1935. 45 p.

Approximate or average weights of various commodities. 1935. 4 p. (Issued by Division of statistical and historical research)

Demand, credit prices outlook charts, for use with the Agricultural outlook for 1935. 1934. 28 p.

Fruits: apples, citrus, peaches, etc., outlook charts for use with the Agricultural outlook for 1935. 1934. 41 p.

Hog outlook charts for use with the Agricultural outlook for 1935. 1934. 21 p.

Hay inspectors manual. Interpretation and application of the U. S. standards for hay and straw and the rules and regulations governing inspection of hay and straw. 1934. 118p. (Issued by Hay, feed and seed division)

List of agricultural outlook charts, 1934-1935. 1934. 26 p.

Summary of federal and state laws pertaining to containers for fruits and vegetables. 1935. 22 p.

Technical terms of the wool market. By Warner M. Buck. 1935. 6 p. (Issued by Division of livestock, meats and wool)

The way of empire in the United States. By E. E. Edwards. 1935. 10 p.

Bureau of Chemistry and Soils

Alcoholic citrus beverages under present regulations. 1934. 3 p.

Bureau of Entomology and Plant Quarantine

Report on status of the European corn borer in 1934. 1934. 9 p. (Issued by Division of cereal and forage insects)

The status of white pine blister rust control. Presented by S. B. Fracker at conference, Washington, D. C., Dec. 3, 1934. 20 p.

Unlimited entry of foreign narcissus bulbs authorized, effective December 15, 1935. 3 p.

Extension Service

1935 farm family living outlook charts. 1934. 4 p. (Issued by Division of cooperative extension)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
(continued)

Forest Service

Wild life management and the national forests. By F. A. Silcox. 1935. 8 p.  
Address delivered before the 21st annual game conference at New York City,  
Jan. 23, 1935.

Bureau of Home Economics

Sound buying methods for consumers. By Ruth O'Brien. 1934. 11 p. Read at  
American marketing society, Dec. 1, 1934.

Standards for consumers' goods. By Ruth O'Brien, 1934. 13 p. Talk given  
at Boston conference on distribution, Sept. 25, 1934.

Bureau of Plant Industry

House plants. By Furman Lloyd Mulford. 1935. 8 p.

New varieties and strains of vegetables. By Roy Magruder. 1934. 18 p. A talk  
given before the annual convention of the Vegetable growers' association of  
America at Toronto, Ontario, Canada, August 21, 1934, and reprinted with the  
Association's permission. (Issued by the Division of fruit and vegetable  
crops and diseases).

Papaya culture. By T. Ralph Robinson. 4 p. (Issued by Division of fruit and  
vegetable crops and diseases)

Pasturing alfalfa with cattle and sheep in the western United States. By Stephen  
H. Hastings. 1935. 16 p.

Quality data for winter-wheat varieties in cooperative plot and nursery experi-  
ments in the hard red winter-wheat region in 1932 and 1933. By C. C. Fifield  
and K. S. Quisenberry. 1934. 29 p. (Issued by Division of cereal crops and  
diseases)

Types or classes of bread characteristics. By C. C. Fifield. 1935. 4 p.  
The work herein reported conducted cooperatively with the Milling, baking and  
chemical laboratory of the Grain division, Bureau of agricultural eco-  
nomics.

Bureau of Public Roads

Broadening the highway program. By Thos. H. MacDonald. 1935. 10 p. Paper read  
at 32d annual convention, American road builders' association, Washington, D.C.  
Jan. 22, 1935.

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A LIBRARY OF EXCEPTIONAL INTEREST TO GARDEN LOVERS

The following article by Mrs. Charles W. Bosworth, of the Garden Club of Cincinnati, is taken from the Bulletin of The Garden Club of America, January, 1935.

"In the midst of the hurly burly of Cincinnati's wholesale commission district stand two dignified buildings, the Lloyd Library and the Lloyd Museum, sanctuaries for the research student.

The Lloyd Library, housing some 60,000 volumes, is unique, the only one of its kind in this country and possibly in the world. It specializes in books on botany, pharmacy, and *materia medica*, being especially rich in books pertaining to the American Eclectic School of Medicine. It includes also books on astronomy, geology, paleontology, some 2,000 pamphlets on insects, 400 on birds and 200 on gardens and gardening.

To cross the threshold is to enter the land of romance, where one comes in touch with the beauty and things of interest in other countries as well as one's own. Here one can browse over the 1,000 or more monthly publications from every part of the world and in almost every language.

The lover of old editions finds himself in a paradise. There is a bibliographical rarity (two editions) - the *Historia Pinaceus*, issued in two volumes, one in 1561 and one in 1567, which appear to be the first attempt at the reproduction of colored plates. Plants that were rare at that time are colored by hand, then have a glossy fixative spread over them, causing the colors to be as bright and fresh as the day they were laid on.

The botanist Linnaeus is represented by fifty or more volumes which Mr. Lloyd has spent years in collecting in Europe and America.

There is a very rare book containing plates of the plants of Germany only, dated June 1820, "from Mj. Gane to Dr. O. D. Norton," thought to be the first book of botanical plates ever brought to Cincinnati. The plates seem to be done in colors that do not fade, appearing as clear as they probably did when they were brought over more than a century ago, doubtless in a sailing vessel.

One of the valued editions of the pharmaceutical works of Claudius Galen was this great Greek physician, born A. D. 130, who so influenced the practice of medicine for fully twelve centuries. His books were translated in the eleventh century and used in the Spanish schools of Cordova, Seville, Toledo, and Sargasso. To him the Arabian schools went for their knowledge until the advent of the noted *Damascensis* Mesue who lived A. D. 928-1016. Mesue is represented by an unpage volume assembled by Nicolaus de Salerno. It bears the title *Canones Universale*, and on the last page the date, July 15, 1513.

This volume contains 139 complex prescriptions arranged in alphabetical order, also the formula for the anesthetic sponge, the sponge producing sleep.

There are countless fascinating old world editions, and an outstanding work known to flower lovers since 1793 as the Botanical Magazine or Flower Garden, in which the most ornamental plants cultivated in the open ground, the greenhouse, or the stove, are accurately represented in their natural colors. The colors are as delicate as the day they left the press in 1793. There are 110 of these volumes.

There are many early American books on American pharmaceutical and botanical subjects. One particularly interesting is an original copy of *The Indian Doctor's Dispensary*, being Father Smith's advice respecting Diseases and their Cure, by Peter Smith "of the Miami Country", published at Cincinnati in 1813.

A LIBRARY OF EXCEPTIONAL INTEREST TO GARDEN LOVERS  
(continued)

Among the many volumes on Japanese flora are twenty-two of rice paper, bound in yellow and stitched in silk. All the leaves are delicately tinted by those exquisite flower painters, the Japanese.

The collection of Spanish flora is the best extant, and the story goes that a man, writing a treatise on lilies, asked where in South Africa he could obtain information on their native lilies, only to be told that the most exhaustive information could be found in the Lloyd Library.

It is thrilling to know the amount of varied research undertaken there. On one of my visits a man from an Eastern chocolate manufacturing concern was doing commercial research on the cocoa bean. On another, a telephone lineman had brought in four different kinds of rot which he had found on the telephone poles, and which he wanted identified, which was done immediately. Many of the students from the Medical College find material for their graduating theses. At one time Professor Flueckiger, the noted German Pharmacologist and Chemist, President Emeritus of the University of Strassburg, while on a trip to the States, availed himself of the rich collection in the Lloyd Library to complete his study of drug history.

The museum or herbarium contains 30,000 specimens and is now the Phaeognomic Herbarium of the Library. It represents the life work of one of the brothers, Curtis Gates Lloyd, who collected in every civilized country of the globe. His specimens from Samoa are very rare. His collection was added to by Professor Walter H. Aiken, now the distinguished Curator of the Museum and Library.

The Library's start is represented by a book-case, 4 feet by 6-1/2 feet, which was in the home of John Uri Lloyd, then an apprentice in pharmacy in Cincinnati in 1864. Mr. John Uri Lloyd, aside from his voluminous contributions to the scientific world of writing, is better known to the layman for his books, Stringtown-on-the-Pike, Red Head, the mystical Etidorpha, or the End of the Earth, and the charming Right Side of the Car.

Mr. John Uri Lloyd and his brother, Nelson Ashley Lloyd, founded the house of "Lloyd Bros. Pharmacists, Inc." They have dealt principally in the medicinal properties extracted from plants and herbs. It was thus that as an aid to pharmacy this wonderful library was created, which has grown to the amazing establishment of today, an endowed institution open to all seekers after plant knowledge."

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COMMUNITY LIBRARIES AND HOME READING

The American Library Association, 520 North Michigan Avenue, Chicago, Illinois, has for limited distribution to those especially interested, mimeographed copies of a summary of agricultural extension projects in "Community libraries and home reading". This summary was prepared by the Extension Studies and Teaching Section of the Division of Cooperative Extension, Extension Service, U. S. Department of Agriculture.

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LIST OF AGRICULTURAL LIBRARIES AND LIBRARIES HAVING LARGE COLLECTIONS  
IN THE SCIENCES PERTAINING TO AGRICULTURE

This list includes (1) the libraries of the land-grant colleges and universities and the state experiment stations, (2) the libraries of the U. S. Department of Agriculture, and (3) miscellaneous libraries. Names of librarians are given in so far as known. Additions to these lists, and corrections, will be gratefully received.

1. Land-grant Colleges and Universities and Experiment Stations

ALABAMA

Alabama Polytechnic Institute, Auburn. Miss Mary E. Martin, Librarian.

Alabama Agricultural Experiment Station, Auburn.

State Normal and Mechanical Institute for Negroes, Norma. Miss Lucile A. Love, Librarian.

Agricultural School and Agricultural Experiment Station, Tuskegee Normal and Industrial Institute, Tuskegee Institute. Mr. W. B. Williams, Librarian.

ARIZONA

University of Arizona, Tucson. Mr. R. H. Gjelsness, Librarian.

ARKANSAS

University of Arkansas, Fayetteville. Miss Julia Vaulx, Librarian.

College of Agriculture, University of Arkansas, Fayetteville.

Miss Margaret Gallaway, Librarian.

CALIFORNIA

Agricultural Reference Service, University of California, Berkeley.

Mrs. Aileen J. Katsky, in charge.

University of California, Berkeley. Mr. Harold L. Leupp, Librarian. College of Agriculture, University Farm, Davis. Miss Nelle U. Branch, Librarian.

Citrus Experiment Station, Riverside. Miss Margaret Buvens, Librarian. Giannini Foundation of Agricultural Economics, University of California, Berkeley. Miss Orpha Cummings, Librarian.

Life Sciences, Life Science Building, University of California, Berkeley, Mrs. M. J. Abbott, Librarian.

COLORADO

State College of Agriculture, Fort Collins. Miss Charlotte A. Baker, Librarian

CONNECTICUT

Connecticut State College, Storrs, Conn. Paul Alcorn, Librarian

Connecticut State Agricultural Experiment Station, New Haven.

Miss L. M. Brautlecht, Librarian.

Storrs Agricultural Experiment Station, Storrs. Miss Betty Porter, Librarian.

DELAWARE

University of Delaware, Newark. Mr. William D. Lewis, Librarian.

Agricultural Experiment Station, University of Delaware, Newark.

Miss Freda E. Ritz, Librarian.

State College for Colored Students, Dover. Mrs. Nell C. Jefferson, Librarian.

LIST OF AGRICULTURAL LIBRARIES AND LIBRARIES HAVING LARGE COLLECTIONS  
IN THE SCIENCES PERTAINING TO AGRICULTURE  
(continued)

FLORIDA

University of Florida, Gainesville, Miss Cora Miltimore, Librarian.  
Agricultural Experiment Station, University of Florida, Gainesville.  
Mrs. Ida K. Cresap, Librarian.  
Florida Agricultural and Mechanical College for Negroes, Tallahassee.  
Miss Jennie E. Baker, Librarian.

GEORGIA

College of Agriculture, University of Georgia, Athens. Miss Nelle M. Reese, Librarian.  
Georgia Experiment Station, Experiment. Miss Sarah L. Kilpatrick, Librarian.  
Georgia Coastal Plain Experiment Station, Tifton. Mrs. Jessie Lee Stephens.  
Librarian.

IDAHO

University of Idaho, Moscow. Miss Mary B. Sweet, Librarian.

ILLINOIS

University of Illinois, Urbana. Mr. P. L. Windsor, Librarian  
College of Agriculture, University of Illinois, Urbana. Miss Mary G. Burwash, Librarian.

INDIANA

Purdue University, Lafayette. Mr. Wm. M. Hopburn, Librarian.  
Agricultural Experiment Station, Purdue University, Lafayette.  
Miss Ivor E. Sempill, Librarian.

IOWA

Iowa State College of Agriculture and Mechanic Arts, Ames.  
Mr. Charles H. Brown, Librarian.

KANSAS

Kansas State College of Agriculture and Applied Science, Manhattan.  
Mr. Arthur B. Smith, Librarian.

KENTUCKY

University of Kentucky, Lexington. Miss Margaret I. King, Librarian.  
Agricultural Experiment Station, University of Kentucky, Lexington.  
Miss Grace L. Snodgrass, Librarian.  
Kentucky State Industrial College, Frankfort. Miss Ann Rucker, Librarian.

LOUISIANA

Hill Memorial Library, Louisiana State University and Agricultural and Mechanical College, University Station, Baton Rouge. Mr. James H. McMillen, Librarian.  
Agricultural Experiment Station, Baton Rouge. Mrs. A. H. Moyer, Librarian.  
Southern University, Scotlandville. Miss Camille S. Shade, Librarian.

MAINE

University of Maine, Orono. Mr. Louis T. Ibbotson, Librarian.

LIST OF AGRICULTURAL LIBRARIES AND LIBRARIES HAVING LARGE COLLECTIONS  
IN THE SCIENCES PERTAINING TO AGRICULTURE (Continued)

MARYLAND

University of Maryland, College Park. Miss Grace L. Barnes, Librarian.

MASSACHUSETTS

Massachusetts State College, Amherst. Mr. Basil B. Wood, Librarian.

Marine Biological Laboratory, Woods Hole, Mass. Mrs. T. H. Montgomery, Jr.  
Librarian.

MICHIGAN

Michigan State College, East Lansing. Mr. J. E. Towne, Librarian.

MINNESOTA

University of Minnesota, Minneapolis. Mr. Frank K. Walter, Librarian.

Department of Agriculture, University of Minnesota, University Farm,  
St. Paul. Miss Harriet W. Sewall, Librarian.

MISSISSIPPI

Mississippi State College, State College. Miss Nannie H. Rice, Librarian.

Alcorn Agricultural and Mechanical College, Alcorn. Mrs. Ruby L. Lyells,  
Librarian.

Mississippi Experiment Station, State College.

MISSOURI

University of Missouri, Columbia. Mr. Henry O. Severance, Librarian.

College of Agriculture, University of Missouri, Columbia. Miss Jane  
Frodsham, Librarian.

Missouri State Fruit Farm and Experiment Station, Mountain Grove.

MONTANA

Montana State College of Agriculture and Mechanic Arts, Bozeman.

Mrs. Lois B. Payson, Librarian.

NEBRASKA

University of Nebraska, Lincoln. Mr. Gilbert H. Doane, Librarian.

College of Agriculture, University of Nebraska, Lincoln. Miss Edna C.  
Noble, Librarian.

NEVADA

University of Nevada, Reno. Miss Thea C. Thompson, Librarian.

College of Agriculture and Agricultural Experiment Station, Reno.  
Miss Gola Mae Johnson, Librarian.

NEW HAMPSHIRE

University of New Hampshire, Durham. Mr. M. A. Miller, Librarian.

NEW JERSEY

Rutgers University, New Brunswick. Mr. George A. Osborn, Librarian.

New Jersey Agricultural Experiment Station, New Brunswick.  
Miss Elizabeth G. Skillman, Librarian.

NEW MEXICO

New Mexico College of Agriculture and Mechanic Arts, State College.  
Miss Lottie S. Peters, Librarian.

LIST OF AGRICULTURAL LIBRARIES AND LIBRARIES HAVING LARGE COLLECTIONS  
IN THE SCIENCES PERTAINING TO AGRICULTURE (continued)

NEW YORK

Cornell University, Ithaca, N. Y. Mr. Otto Kinkeldey, Librarian.  
New York State College of Agriculture, Ithaca, Mr. Willard W. Ellis,  
Librarian.  
New York State Agricultural Experiment Station, Geneva. Miss Marjorie E.  
Rogers, Librarian.  
New York State College of Forestry at Syracuse University, Forest  
Library, Eleanor Church, Librarian.

NORTH CAROLINA

University of North Carolina, Chapel Hill. Mr. Robert B. Downs, Librarian.  
North Carolina State College of Agriculture and Engineering, State  
College Station, Raleigh. Mr. W. P. Kellam, Librarian.  
The Negro Agricultural and Technical College, Greensboro, North Carolina.  
Miss Florence L. Byrd, Librarian.

NORTH DAKOTA

North Dakota Agricultural College and Experiment Station, State College  
Station, Fargo. Mrs. Ethel McVeety, Librarian.

OHIO

Ohio State University, Columbus. Mr. Earl N. Manchester, Librarian.  
Ohio Agricultural Experiment Station, Wooster. Miss Emma J. Collins,  
Librarian.

OKLAHOMA

Oklahoma Agricultural and Mechanical College, Stillwater.  
Mr. Icko Iben, Librarian.  
Oklahoma Agricultural Experiment Station, Stillwater. Miss Velma  
Harned, Librarian.

OREGON

Oregon State Agricultural College, Corvallis. Miss Lucy M. Lewis,  
Librarian.

PENNSYLVANIA

Pennsylvania State College, State College. Mr. Willard P. Lewis, Librarian.  
Agricultural Library, Pennsylvania State College, State College.  
Miss Anne E. Beal, Librarian.

RHODE ISLAND

Rhode Island State College, Kingston. Mrs. M.R. Van Ingen, Librarian.  
Rhode Island Agricultural Experiment Station, Kingston,  
Miss Gertrude Phillips, Librarian.

SOUTH CAROLINA

Clemson Agricultural College, Clemson College. Miss Cornelia A. Graham,  
Librarian.  
Colored Normal, Industrial, Agricultural and Mechanical College of  
South Carolina, Orangeburg. Miss Athelma R. Nix, Librarian.

SOUTH DAKOTA

South Dakota State College of Agriculture and Mechanical Arts,  
Brookings. Prof. Wm. H. Powers, Librarian.

LIST OF AGRICULTURAL LIBRARIES AND LIBRARIES HAVING LARGE COLLECTIONS  
IN THE SCIENCES PERTAINING TO AGRICULTURE (continued).

TENNESSEE

University of Tennessee, Knoxville, Miss Mary E. Baker, Librarian.  
Agricultural Library, University of Tennessee, Knoxville. Miss Sarah C. Currell, Librarian.  
Tennessee Agricultural and Industrial State College, Nashville.  
Mrs. Martha M. Brown, Librarian.

TEXAS

Agricultural and Mechanical College of Texas, College Station.  
Mr. Thomas F. Mayo, Librarian.  
Agricultural Experiment Station, College Station. Miss Pauline Elkins, Librarian.  
Prairie View State Normal and Industrial College, Prairie View.  
Mr. O. J. Baker, Librarian.

UTAH

Utah State Agricultural College, Logan. Miss Hattie Smith, Assistant Librarian.  
Utah Agricultural Experiment Station, Logan. Mrs. Blanche C. Pittman, Librarian.

VERMONT

University of Vermont, Burlington. Miss Helen B. Shattuck, Librarian.  
Agricultural Experiment Station, Burlington.

VIRGINIA

Virginia Polytechnic Institute, Blacksburg. Mr. Ralph M. Brown, Librarian;  
Mrs. A. P. Cunningham, Assistant Librarian, in charge, Agricultural Branch  
Virginia Truck Experiment Station, Norfolk. Mrs. Nancy D. Potter,  
Librarian.  
Virginia State College for Negroes, Ettrick. Alpha S. Rogers, Librarian.  
Hampton Institute, Hampton. Miss Caroline L. Jones, Librarian.

WASHINGTON

State College of Washington, Pullman. Mr. W.W. Foote, Librarian.  
Western Washington Experiment Station, Puyallup. Miss Gladys M. Oliver,  
Librarian.

WEST VIRGINIA

West Virginia University, Morgantown. Dr. L. D. Arnett, Librarian.  
West Virginia State College, Institute. Mr. M. M. Jefferson, Librarian.

WISCONSIN

University of Wisconsin, Madison. Mr. Walter M. Smith, Librarian.  
College of Agriculture, University of Wisconsin, Madison. Mr. Clarence S. Kean, Librarian.

WYOMING

University of Wyoming, Laramie. Miss Mary E. Marks, Librarian.

LIST OF AGRICULTURAL LIBRARIES AND LIBRARIES HAVING LARGE COLLECTIONS  
IN THE SCIENCES PERTAINING TO AGRICULTURE (continued)

2. U. S. Department of Agriculture

Librarian of the Department, Miss Claribel R. Barnett  
Associate Librarian, Miss Emma B. Hawks

Readers' Division. Miss Emma B. Hawks, In Charge  
Catalogue Division. Miss Helen M. Thompson, Chief  
Periodical Division. Miss Lydia K. Wilkins, Chief  
Branch libraries in the Bureaus.

Bureau of Agricultural Economics. Miss Mary G. Lacy, Librarian.

Division of Cotton Marketing. Miss Emily L. Day, Librarian.

Bureau of Agricultural Engineering. Mrs. Dorothy W. Graf, Librarian.

Bureau of Animal Industry. Miss Mary F. Thompson, Librarian.

Division of Animal Husbandry. Miss Jessie Urner, Librarian.

Bureau of Chemistry and Soils. Miss Minerva G. Beckwith, Librarian.

Fertilizer Investigations. Mrs. Lee A. Garby, Librarian.

Bureau of Dairy Industry. Miss Carrie B. Sherfy, Librarian.

Bureau of Entomology. Miss Mabel Colcord, Librarian.

Division of Bee Culture. Miss Ethel Coon, Librarian.

Office of Experiment Stations. Miss Cora L. Feldkamp, Librarian.

Forest Service. Miss Helen Moore, Librarian.

Bureau of Home Economics. Mrs. Mamie F. Nystrom, Librarian.

Bureau of Plant Industry. Miss Jessie M. Allen, Librarian.

Bureau of Public Roads. Miss O. Louise Evans, Librarian.

Solicitor's Office. Mr. Francis D. Scott, In Charge.

Weather Bureau. Prof. C. F. Talman, Librarian.

Outside of Washington.

Forest Products Laboratory, Forest Service, Madison, Wisconsin.

Miss Ellen A. Hoffman, Librarian.

Regional Office, Forest Service, San Francisco, California. (Library position vacant)

Regional Office, Forest Service, Portland, Oregon. Miss E. Maude Stone, Librarian.

Regional Office, Forest Service, Ogden, Utah. Miss Mildred Williams, Librarian.

Institute of Forest Genetics, Placerville, California. Miss Annie M. Avakian, Librarian. (In the January 1935 issue of Agricultural Library Notes it was erroneously stated that Miss Avakian had recently been appointed as Junior Librarian of the Institute of Plant Genetics at Placerville)

LIST OF AGRICULTURAL LIBRARIES AND LIBRARIES HAVING LARGE COLLECTIONS  
IN THE SCIENCES PERTAINING TO AGRICULTURE (continued)

3. Miscellaneous Libraries, Societies and Institutions

In this list are included miscellaneous libraries having large collections on agriculture, horticulture, forestry and natural history. In the case of collections on these subjects belonging to universities and colleges (other than land-grant institutions) only those are included that are known to have special librarians in charge. Additions or corrections will be gratefully received.

- Academy of Natural Sciences, Philadelphia, Pa. Mr. Wm. J. Fox, Librarian.  
American Museum of Natural History, New York. Miss Hazel Gay, Acting Librarian.  
Boston Society of Natural History, Boston, Mass. Miss Mary B. Cobb, Librarian.  
Boyce Thompson Institute for Plant Research, Yonkers, N. Y. Miss Zeliaette  
Troy, Librarian.  
Brooklyn Botanic Garden, Brooklyn, N. Y. Mr. Calvin W. Foss, Librarian.  
Cleveland Museum of Natural History, Cleveland, O. Miss Edythe G. Williams,  
Reference Librarian.  
Columbia University. Natural Science Libraries, New York. Miss Amy L.  
Hepburn, Librarian.  
Field Museum of Natural History, Chicago, Ill. Miss Emily L. Wilcoxson,  
Librarian.  
Harvard University, Arnold Arboretum, Jamaica Plain, Mass. Miss Ethelyn M.D.  
Tucker, Librarian.  
Harvard University. Farlow Reference Library, Cambridge, Mass.  
Miss Hilda Harris, Librarian.  
Harvard University. Gray Herbarium, Cambridge, Mass. Miss Ruth D. Sanderson,  
Librarian.  
Harvard University, Museum of Comparative Zoology, Cambridge, Mass.  
Miss Eleanor K. Peters, Librarian.  
Horticultural Society of New York, New York. Miss Elizabeth C. Hall,  
Librarian.  
International Harvester Co., Agricultural Extension Department, Chicago,  
Ill. Mrs. Kathryn B. Allen, Librarian.  
John Crerar Library, Chicago, Ill. Dr. J. Christian Bay, Librarian.  
The Lloyd Library, Cincinnati, O. Mr. Walter H. Aiken, Librarian.  
Massachusetts Horticultural Society, Boston, Mass. Miss Dorothy S. Manks,  
Librarian.  
Missouri Botanical Garden, St. Louis, Mo. Miss Nell C. Horner, Librarian.  
New York Botanical Garden, Bronx Park, N. Y. Miss S. H. Harlow, Librarian.  
Pennsylvania Horticultural Society, Philadelphia, Pa. Miss Maria B. Samuel.  
Librarian.  
Smithsonian Institution, Washington, D. C. Prof. W. L. Corbin, Librarian.  
University of Michigan, School of Forestry and Conservation, Ann Arbor,  
Mich. Miss Ina H. Rankin, Librarian.  
University of Pennsylvania Botanical Laboratory, Philadelphia, Pa.  
E. E. Craig, Librarian.  
Yale University School of Forestry, New Haven, Conn. Miss Frances  
Bolton, Librarian.

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## FILM-STRIP COPIES OF SCIENTIFIC PUBLICATIONS

By Dr. Atherton Seidell, National Institute of Health

[Editor's note: In previous issues of Agricultural Library Notes extracts have been given of articles by Dr. Atherton Seidell of the National Institute of Health, on the photographic reproduction of scientific articles. Another article by him on this subject entitled "Film-strip copies of scientific publications" is contained in the February 15, 1935, issue of Science, p. 174-176. As this article is of special interest in connection with the recent inauguration of a film copying service in the U. S. Department of Agriculture Library, it is reprinted below. It is followed by Supplementary Remarks, prepared for Agricultural Library Notes by Dr. Seidell, on recent developments in connection with copying cameras and projectors.]

"Attention was called some months ago<sup>(1)</sup> to the efforts being made to re-organize the production and distribution of scientific publications. Special emphasis was laid on the need of making published results of research more easily accessible to those who use them. It was pointed out that the apparatus and materials required for making film-strip copies of printed pages exist at present and all that is needed is to assemble them and systematically organize the service. A plan of such an organization was suggested, and a preliminary estimate given of the cost of the equipment required.

At the time the articles referred to above were written, the most highly developed machine for photographing pages of books upon moving picture film, of which I had learned, was one of German manufacture, for which the quoted price, in marks, corresponded to about \$1,000.

Since then, through the courtesy of Dr. Robert C. Binkley, chairman of the Joint Committee on Materials for Research, I have had the privilege of reading the advance sheets of chapters IX and X of his revised "Manual of Methods of Reproducing Research Materials." These chapters give a comprehensive critical survey of the factors involved in applying film-copying processes to the reproduction of printed or other documents. The contributions of a large number of workers are reviewed and it is apparent that greater progress has been made than is generally realized. Some 12 film-copying cameras are described and their relative merits discussed. Of these, the camera invented and built by Mr. Lloyd B. Kennedy, of Warren, Ohio, is considered to be the most ingenious so far developed.

Of the several cameras at present on the market, the most widely used is the Leica. This camera, however, is designed particularly for the use of individuals who wish to make their own copies of documents. Its limited film capacity restricts the usefulness of this camera for the large scale production under which a highly organized library copying service would be called upon to operate.

On November 5 last Mr. Watson Davis, of Science Service, invited to a luncheon at the Cosmos Club of Washington about 15 persons known by him to be interested in the subject of film copying of documents. Among those present was Dr. R. H. Draeger, of the Medical Department of the U.S. Navy. Dr. Draeger told of a camera he had built and exhibited film-roll copies of books made with it. He was led to build his camera by the desire to provide himself with a conveniently transportable film library of scientific publications, for consultation and study while on shipboard or at distant

(1) Science, 80: 70-72, July 20, 1934; pages 184-5, Aug. 24, 1934. See also address on the Berthelot Centenary, Science, 67: 497-99, May 18, 1928.

## FILM-STRIP COPIES OF SCIENTIFIC PUBLICATIONS

(continued)

naval posts. The camera was completed shortly after he was detailed for a special course of study at the Naval Medical School of Washington. While here, the director of the school recognized the utility of the camera for copying rare volumes needed to complete files upon naval hygiene being assembled at the school. Upon his recommendation, Dr. Draeger was provided with facilities for constructing a second and more highly perfected camera, which is expected to be completed shortly.

As a result of this information communicated at the luncheon, Miss Claribel R. Barnett, librarian of the Department of Agriculture, who was also present, has arranged at my suggestion for Dr. Draeger to install his camera in her library and make experiments upon copying articles in bound volumes of journals, the loan of which in large numbers is requested by out-of-town governmental and private research institutions. This experimental service has been in operation for over two months and the most varied lot of articles have been copied and sent out.

The experiment has conclusively shown that this first stage of a film-copying service has been satisfactorily achieved. The only other improvements will be in the direction of increasing the automatic character of the apparatus. The next step is the designing and manufacture of film-strip magnifiers and projectors which will permit one to comfortably read the printed matter photographed on the film.

The many film projectors at present on the market have been designed for other purposes and can not be conveniently used for reading film strips without more or less modification. In general, they are equipped with holders for film rolls and not short strips. Furthermore, the lens focus is usually too long to permit the screen to be placed conveniently near the projector. This latter disadvantage can in some cases be overcome by projecting into a box provided with a mirror which reflects the image upon a ground glass.

In view of the need of reading equipment especially designed for film-strip copies of printed pages, attention has been turned first to constructing a simple magnifier. This consists of a short cylinder, to one end of which is fixed a holder to receive the film, beyond which is a ground glass, and to the other a lens capable of being focused to sharp definition of the image.

The film strip is inserted, the apparatus is held towards a source of light, the focus adjusted and the brightly illuminated text, which is magnified about 10 times, read without difficulty. A film-strip magnifier of this kind, provided with a satisfactory lens, a handle and a screen to shade the eye not used, has been constructed at a cost which would permit it to be sold for not more than five dollars.

Experiments with such a magnifier have shown that it can also be used for projecting the film copy upon an improvised screen or a reflecting mirror and ground glass mounted in a box. All that is required is an efficient source of light. This may conveniently be composed of a lamp, condenser lenses and a reflector mounted in a small metal box. A clamp bracket permits the light source and film magnifier to be held in line and directed towards any improvised screen or into a reading box provided with a mirror and ground glass. Of the three elements composing the apparatus, film strips may be read directly, using the magnifier alone,

## FILM-STRIP COPIES OF SCIENTIFIC PUBLICATIONS

(continued)

or by projection on an improvised screen with the aid of the magnifier and light source, or by projection on a ground glass by a combination of the three elements. As mentioned above, the film-strip magnifier with a lens suitable for reading the printed matter directly should cost not more than five dollars. Provided with a better lens, needed for projecting to a larger scale, the price would probably be within \$10. The other two elements of the apparatus can no doubt be furnished for another \$10.

In the previous communications upon the organization of a film-strip documentation service it was suggested that the film strips should be mounted in windows in filing cards and sent out in this form. The object of this was to facilitate filing and permit the title and reference to be typewritten on the card and thus the subject-matter identified without resorting to magnification or projection of the film copy. The high cost of equipping projectors with holding devices for cards as large as would be necessary makes this plan impractical. It is now suggested that the film strips be filed in envelopes with the necessary indications written on the outside. For reading, the film strips could then be removed and inserted in the ordinary sized slots provided on magnifiers and projectors.

In order to facilitate the identification of the subject-matter of a given film strip it is contemplated that the title page of the volume in which appears the article copied shall be photographed in the first frame of the strip, together with the abbreviation of the journal title, volume, page and year, copied from a legend sufficiently large to be read on the film strip with the naked eye. Thus the film copy will be so perfectly identified that the possibility of its being misplaced from its proper envelope need not be a cause of concern.

The film-copying service would at first consist simply of photographing the pages of articles in journals and sending the negative film strip to those desiring them. The cost would be very low. Acetate film sells for \$20 per 1,000 feet, and since two pages are photographed upon each 1 1/2 inches of film there would be 16 pages per foot. Allowing for the title page, identification reference and a short blank space at each end, the film for a 10-page article would cost about 2 cents. The developing and labor would probably not amount to more than 8 cents per 10-page article, hence it is likely that the service could be rendered by a library, without loss, at 10 cents per article of 10 pages or less and 5 cents for each additional 10 pages. This, however, is only a preliminary estimate and may be subject to revision on the basis of experience gained during an experimental period of operation.

When one considers the complex and expensive organization required for keeping track of borrowed books, the wear and tear to which they are subjected, and the messenger or other service required to deliver them, the saving effected by reducing the number which would leave the library would certainly be an important item. It is even possible that film-copying service rendered free might be a saving over the present system of lending library books. It is therefore not unreasonable to expect that even at the low price mentioned, the adoption of film-copying by libraries would lead to a considerable economy of operation.

FILM-STRIP COPIES OF SCIENTIFIC PUBLICATIONS  
(continued)

With this end in view and also in consideration of the great service that film copies may be expected to render research workers, Miss Barnett has arranged to have made, at the prices mentioned above, with the equipment of Dr. Draeger, film-strip copies of articles contained in publications on file in the library of the Department of Agriculture.

Those desiring to avail themselves of this service should send their orders to the "Biblio-Film Service," care of Library, U.S. Department of Agriculture, Washington. It is expected that within a short time film-strip magnifying and projecting apparatus, such as described above, will be available."

Supplementary Remarks to the Foregoing Article

By Atherton Seidell

Since this article was written there have been several developments of special interest. During Christmas week there was held in Washington in connection with the meetings of the American Horticultural Societies, an exposition of cameras designed for copying printed matter upon moving picture film. Dr. Martin of the Library of Congress showed the French E. K. C. equipment and work done with it in his library. Dr. Draeger exhibited his admirably built camera. The Leica camera and its various accessories were shown. The Eastman Kodak Company demonstrated the application of the Recordak to copying typewritten and other matter recorded upon sheets up to 8 x 10 inches in size. It is expected that this machine will eventually be adapted to copying the pages of printed volumes.

Probably the most promising apparatus which was shown, from the standpoint of simplicity and economical construction, was a preliminary model of a copying camera being developed by the Fulmer Graflex Corporation of Rochester, N. Y. This camera is provided with an ingenious device which, by one operation and without a motor, makes a timed exposure and then winds the film for the next. The apparatus is of such simple construction that it can undoubtedly be built for a price which will be well within the means of practically all libraries and of many individuals who may desire to make their own film copies of publications. This camera should, therefore, make it possible for many libraries to begin film copying service.

In regard to the progress which has been made in perfecting means for reading the printed matter copied in reduced size on sensitized film, satisfactory designs of instruments for this purpose have been made and negotiations are under way.

It is expected that a magnifier adapted for direct reading, provided with a 10 power lens and a handle and shade for the eye not used, will shortly be available at \$5.00.

Although a very simple projector has been designed, the working out of its economical manufacturing details will probably require several months. The two features in connection with it which have required most study are (1) the selection of a light condensing system which gives sufficient illumination without causing damage to the film by heat during as long a period as it might be desired to project the text for reading or study, and (2) the choice of a projecting lens which gives sharp definition of a sufficiently large field at close range. Unfortunately, the only lenses which fulfill this requirement are expensive. The principal cost of the apparatus will, accordingly, be the lens. Efforts to reduce this cost are being made and it is expected that an entirely satisfactory projector will be produced for about \$30.00.

FIIM-STRIP COPIES OF SCIENTIFIC PUBLICATIONS  
(continued)

Although it is realized that for those who may wish to make extended use of filmstats of scientific articles a satisfactory projector is necessary, it is believed that many will find that the simple magnifier which permits direct reading of the printed matter will serve this purpose, at least in the beginning.

Since the effort to develop filmstat service is still in the experimental stage and only conjecture can be made as to the extent of the demand there may be for it, the Biblio-Film Service will be very grateful to those who will favor it with their opinion as to how great the service may be to them. An intimation as to whether they would like to experiment with the magnifier while ~~sensitized~~.

Errata in AGRICULTURAL LIBRARY NOTES for February 1935

On page 72, in the statement entitled "Supplementary Remarks to the foregoing Article," by Atherton Seidell:

- Paragraph 1, line 3: Substitute Historical for Horticultural  
Paragraph 3, line 3: Substitute Folmer for Fulmer  
Paragraph 4, line 4: Add at end, "for their manufacture."

In order that it may be rendered at the lowest possible cost. Towards this end it is desirable that correspondence, collections, accounts, and all records of operation be reduced to the minimum. Since the Library personnel will cooperate in collecting the references to be copied and in replacing the volumes on the shelves, and since Library space is provided for the copying equipment used, it has been decided that the service will be rendered free, at least for a trial period and within certain limits, to scientists in Federal governmental institutions if needed in connection with official work. To all others the charge will be, for the present at least, ten cents for each article not exceeding ten pages in length, and five cents for each additional ten pages or fraction thereof, of the same article. The money received in payment will be used for meeting the actual costs. Any surplus will be devoted to purchasing additional equipment and to the further perfecting and economical production of the apparatus used in making and in reading the film copies.

For brevity and convenience in referring to copies of printed articles upon sensitized film, it is proposed that the name filmstat be employed. The product distributed by the Biblio-Film Service will accordingly hereafter be referred to as filmstats.

In order that filmstats may be easily identified by legends which may be read with the naked eye, an economical manner of providing the necessary large type copy for such legends is being sought. It is expected that at least the complete journal reference in addition to the reproduced title page of the periodical will be given. Possibly, also, the author's name may later be reproduced on the film copy in letters large enough to be read by the naked eye.

FILM-STRIP COPIES OF SCIENTIFIC PUBLICATIONS  
(continued)

With this end in view and also in consideration of the great service that film copies may be expected to render research workers, Miss Barnett has arranged to have made, at the prices mentioned above, with the equipment of Dr. Draeger, film-strip copies of articles contained in publications on file in the library of the Department of Agriculture.

Those desiring to avail themselves of this service should send their orders to the "Biblio-Film Service," care of Library, U.S. Department of Agriculture, Washington. It is expected that within a short time film-strip magnifying and projecting apparatus, such as described above, will be available."

Supplementary Remarks to the Foregoing Article

By Atherton Seidell

~~camera being developed~~

This camera is provided with an ingenious device which, by one operation and without a motor, makes a timed exposure and then winds the film for the next. The apparatus is of such simple construction that it can undoubtedly be built for a price which will be well within the means of practically all libraries and of many individuals who may desire to make their own film copies of publications. This camera should, therefore, make it possible for many libraries to begin film copying service.

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Although a very simple projector has been designed, the working out of its economical manufacturing details will probably require several months. The two features in connection with it which have required most study are (1) the selection of a light condensing system which gives sufficient illumination without causing damage to the film by heat during as long a period as it might be desired to project the text for reading or study, and (2) the choice of a projecting lens which gives sharp definition of a sufficiently large field at close range. Unfortunately, the only lenses which fulfill this requirement are expensive. The principal cost of the apparatus will, accordingly, be the lens. Efforts to reduce this cost are being made and it is expected that an entirely satisfactory projector will be produced for about \$30.00.

FILM-STRIP COPIES OF SCIENTIFIC PUBLICATIONS  
(continued)

Although it is realized that for those who may wish to make extended use of filmstats of scientific articles a satisfactory projector is necessary, it is believed that many will find that the simple magnifier which permits direct reading of the printed matter will serve this purpose, at least in the beginning.

Since the effort to develop filmstat service is still in the experimental stage and only conjecture can be made as to the extent of the demand there may be for it, the Biblio-Film Service will be very grateful to those who will favor it with their opinion as to how great the service may be to them. An intimation as to whether they would like to experiment with the magnifier while awaiting the appearance of the especially designed projector would aid in forming an estimate as to the number which should be ordered. Naturally, if the demand for the magnifiers and projector should be sufficiently large, the manufacturing cost will be less.

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INFORMATION IN REGARD TO THE BIBLIO-FILM SERVICE  
OPERATING IN THE LIBRARY OF THE U. S. DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.

The purpose of this service is to decrease interlibrary loans of books by supplying directly to individuals copies of scientific articles contained in periodicals. The organization is still incomplete and the indulgence of those whom it is desired to serve is requested pending the acquirement of more experience in operating details. The cooperation of those using the service is also requested in order that it may be rendered at the lowest possible cost. Towards this end it is desirable that correspondence, collections, accounts, and all records of operation be reduced to the minimum. Since the Library personnel will cooperate in collecting the references to be copied and in replacing the volumes on the shelves, and since Library space is provided for the copying equipment used, it has been decided that the service will be rendered free, at least for a trial period and within certain limits, to scientists in Federal governmental institutions if needed in connection with official work. To all others the charge will be, for the present at least, ten cents for each article not exceeding ten pages in length, and five cents for each additional ten pages or fraction thereof, of the same article. The money received in payment will be used for meeting the actual costs. Any surplus will be devoted to purchasing additional equipment and to the further perfecting and economical production of the apparatus used in making and in reading the film copies.

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In order that filmstats may be easily identified by legends which may be read with the naked eye, an economical manner of providing the necessary large type copy for such legends is being sought. It is expected that at least the complete journal reference in addition to the reproduced title page of the periodical will be given. Possibly, also, the author's name may later be reproduced on the film copy in letters large enough to be read by the naked eye.

INFORMATION IN REGARD TO THE BIBLIO-FILM SERVICE  
OPERATING IN THE LIBRARY OF THE U. S. DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.  
(continued)

Since each article copied will be a unit in the series of operations by which filmstats are produced, it is especially important that those ordering filmstats, in addition to including the desired references in their letters, write each reference to an article desired on a separate slip of paper, preferably 3 x 5 inches in size. Each such reference slip should also contain the name and address of the person to whom the filmstat copy is to be sent. This slip will be returned with the filmstat. When possible, it will facilitate accounting if the exact payment accompanies the order so that when the filmstats are mailed no further records of the operation will be necessary. Checks or money orders should be made out to Biblio-Film Service and addressed in care of the U. S. Department of Agriculture Library, Washington, D. C. Deposits may be made which may be drawn on as occasion demands.

The reference slips as received each day will first be looked up in the Library catalogue and the shelf number of the periodical noted on each slip. They will then be given to a library attendant who will search the books in the stacks and deliver them to the photographing room. The books thus assembled will be classified in accordance with their size, so that all pages of equal dimensions will be copied with one focal setting of the camera.

The camera operator will first photograph the title page of the periodical and the large-scale legend identifying the article. The designated pages will then be photographed. When all of the articles ordered in one day have been copied, the roll of film will be developed and dried. It will then be cut and each filmstat joined to its corresponding reference slip and mailed to the person for whom it was made.

In order to make use of filmstats it is, of course, necessary that a convenient means of reading the greatly reduced sized copy be provided. This is the difficulty which has so far restricted the widespread adoption of this system of reproducing scientific and other printed records. Recent efforts which have been directed towards the solution of this problem have resulted in the development of satisfactory designs of these instruments. Negotiations for their moderately large-scale production are under way.

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ISSUED MONTHLY  
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WASHINGTON  
D. C.



Principal Library AccessionsAgricultural Departments

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Turkey production in South Dakota. O. J. Weisner and G. S. Weaver. (S. Dak. State Col. Ext. Circ. 292, rev.) Brookings, 1934.

References; p. 30-31.

Home entertainment and hospitality. M. A. Covert. (S. Dak. State Col. Ext. Circ. 345.) Brookings, 1934.

Mimeographed.

Soups and their accessories. S. Z. Wilder. (S. Dak. State Col. Ext. Circ. 346.) Brookings, 1934.

Inexpensive salads from home produced products. S. Z. Wilder. (S. Dak. State Col. Ext. Circ. 347.) Brookings, 1934.

Special instructions for the adjustments and the care of the sewing machine. (S. Dak. State Col. Ext. Circ. [i.e. Spec. Ext. Circ.] 36.) Brookings, 1934.

Mimeographed.

Effective and inexpensive bracing methods for farm buildings. R. L. Patty. (S. Dak. State Col. Spec. Ext. Circ. 37.) Brookings [1934?] Mimeographed.

Games for community meetings. (S. Dak. State Col. Spec. Ext. Circ. 38.) Brookings [1934?]

Mimeographed.

Directions for laying out the foundation for a building. R. L. Patty. (S. Dak. State Col. Spec. Ext. Circ. 41.) Brookings [1934?]

Mimeographed.

Meat sundries, how to prepare and use them. I. B. Johnson and S. Z. Wilder. (S. Dak. State Col. Spec. Ext. Circ. 43.) Brookings, 1935.

South Dakota agricultural outlook for 1935. (S. Dak. State Col. Farm Econ. Review and Outlook Circ. Letter no. 115.) Brookings, 1935.

Texas

Gardening. J. F. Rosborough. (Tex. Agr. Col. Ext. [Bul.] B-70 [rev.]) College Station, 1934.

Poultry yard equipment. E. N. Holmgreen. (Tex. Agr. Col. Ext. [Bul.] B-71 [rev.]) College Station, 1934.

Bed rooms of comfort. B. Claytor. (Tex. Agr. Col. Ext. [Bul.] B-75. [rev.]) College Station, 1934.

From rags to rugs. B. Claytor and M. L. Hayden. (Tex. Agr. Col. Ext. [Bul.] B-77, rev.) College Station, 1934.

Canning fruits and vegetables. (Tex. Agr. Col. Ext. [Bul.] B-85.) College Station, 1934.

LIST OF STATE EXTENSION PUBLICATION RECEIVED DURING FEBRUARY 1, '35  
(continued)

Vermont

- Foods for 4-H clubs. Mothers' maids, handbook for first year. L. V. Anderson.  
Vt. Agr. Col. Ext. [unnumbered] Burlington, 1934.
- Foods for 4-H clubs. Little cooks, handbook for second year. L. V. Anderson.  
Vt. Agr. Col. Ext. [unnumbered] Burlington, 1934.

West Virginia

Orchard spraying guide for West Virginia. Spray schedules, spraying methods and materials. E. C. Sherwood. (W. Va. Agr. Col. Ext. Circ. 304, rev.) Morgantown, 1935.

Consider the children. T. Dower-Jones and G. Humphreys. (W. Va. Agr. Col. Ext. Good Living Ser. II, Lesson no. 9, Further Adventures in Good Living. Morgantown [1934?])

Parents in step with the times. T. Dower-Jones and G. Humphreys. (W. Va. Agr. Col. Ext. Good Living Ser. II, Lesson no. 10, Further Adventures in Good Living.) Morgantown [1934?]

Safeguarding health. H. C. Cameron. (W. Va. Agr. Col. Ext. Good Living Ser. II, Lesson no. 11, Further Adventures in Good Living.) Morgantown. [1934?]

Homes of harmony. G. Humphreys. (W. Va. Agr. Col. Ext. Good Living Ser. II, Lesson no. 12. Further Adventures in Good Living.) Morgantown [1934?]

The farm home up-to-date. G. Humphreys. (W. Va. Agr. Col. Ext. Good Living Ser. III, Lesson no. 3, Adventures in Better Living.) Morgantown [1935]

Wisconsin

Rural youth and rehabilitation. E. L. Kirkpatrick. (Wis. Agr. Col. Ext. Spec. Circ. [unnumbered]) Madison, 1935.

Rural Youth and Rural Life Series. (Mimeographed)

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MISCELLANY

Webster's New International Dictionary, second edition, 1934, as a "botanical reference book" is reviewed in Science for February 22, 1935, p. 201, by H. A. Gleason of the New York Botanical Garden.

A "Sketch of the history of the Philadelphia Society for Promoting Agriculture prepared for the celebration of the 150th anniversary of its foundation", by Rodney H. True of the University of Pennsylvania, has recently been issued by the Society. A portrait of John Beale Bordley, founder of the Society, appears as the frontispiece.

The recent book by Charles A. Beard entitled "The Open Door" is reviewed by Secretary Wallace in The New Republic for January 1935, pp. 225-227. In conclusion he says that he trusts the book will be debated up and down the breadth of the land.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

of the U. S. Department of Agriculture

received during February 1935, exclusive bibliographies\* and current issues of serials.\*\*

Discussion: a brief guide to methods. 1935. 10 p.

Discussion group topic no. 1-2. 1935.

Preliminary statement of a cotton research program. 1935. 157 p.

Office of the Secretary

Testimony of Henry A. Wallace at hearing before the Senate agricultural committee on cotton exports, Jan. 30, 1935. 15 p.

Foreign competition and demand. Statement of Rexford G. Tugwell before Senate committee on agriculture and forestry, Jan. 30, 1935. 12 p.

The problem of social insecurity. Address of R. G. Tugwell, Chicago dental society, Feb. 19, 1935. 19 p.

The progressive tradition. Address by R. G. Tugwell at Union College, Schenectady, N. Y., January 25, 1935. 21 p.

Farm records and farm adjustment; a radio talk by M. L. Wilson, National farm and home hour, Jan. 22, 1935. 2 p.

Land use in relation to general farm policy. Radio address by M. L. Wilson on the National farm and home hour, Feb. 1, 1935. 4 p.

Agricultural Adjustment Administration

Agricultural adjustment, present and future. Speech by Chester C. Davis, before Illinois agricultural association, in Quincy, Ill., Jan. 30, 1935. 14 p.

Agriculture, industry, and the AAA. Address delivered by George E. Farrell at the annual convention of the Utah state farm bureau federation, Salt Lake City, Jan. 25, 1935. 13 p. (Issued by Wheat section)

Cane molasses. 1935. 3 p. (FF7-Mi)

Future problems of the livestock industry in the west. An address by G. B. Thorne, before the annual convention of the American national livestock association at Rapid City, South Dakota, Jan. 10, 1935. 6 p.

A land use program for the cotton belt. Address by H. R. Tolley before the Association of southern agricultural workers, Atlanta, Georgia, Feb. 1, 1935. 19 p.

\*Bibliographies included in general list of bibliographies on page 81.

\*\*For list of the principal series issued regularly, see v. 9, no. 10, p. 384

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Agricultural Adjustment Administration  
(continued)

Livestock problems in agricultural planning. An address by G. B. Thorne before the annual meeting of Section O, of the American Association for the advancement of science and associated societies, at Pittsburgh, Penn., Dec. 28, 1934. 10 p.

Memorandum discussing agencies in the federal government engaged in land acquisition, land administration and land planning. Prepared by Philip M. Glick. 1935. 91 p. (Issued by Office of the general counsel)

Molasses for horses and mules. 1935. 4 p. (FF7-M3)

The need for a flexible industrial price policy. By Louis H. Bean. 1935. 10 p. (Prepared for hearing on price provisions of codes for fair competition, Jan. 10, 1935, before the National industrial recovery board.)

The need for an industrial production program as a basis for sound price and employment policies. By Louis H. Bean. 1935. 10 p. Prepared for the Hearings on employment and provisions of Codes of fair competition, Jan. 3, 1935, before the National industrial recovery board.

The origin and operation of the 1933 cotton producers pool to December 15, 1934. By Oscar Johnston. 1935. 15 p.

Prospective future trends in agricultural adjustment. Adapted from an address by M. L. Wilson before the American vocational association, Pittsburgh, Pa., Dec. 1934. 1935. 9 p. (Discussion statement no. 15)

Review of literature on blackstrap molasses for farm livestock. 1935. 3 p. (FF7-M2)

Some problems relating to a continuing agricultural adjustment program. Address by F. F. Elliott before the Illinois society of farm manager's program at Urbana, Ill., Jan. 17, 1935. 31 p.

Statement of Oscar Johnston, manager of the Cotton producers pool, before the Senate agricultural committee hearing on cotton exports. 1935. 15 p.

What farm recovery means to an industrial region. Address of Chester C. Davis at Farmers' week, Michigan state college of agriculture and applied science, East Lansing, Mich., Jan. 31, 1935. 15 p.

Bureau of Agricultural Economics

Agricultural income and purchasing power. By O. C. Stine. 1934. 6 p. Address, joint session, American statistical association and American farm economic association, Chicago, Dec. 28, 1934. (Issued by Division of statistical and historical research)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics  
(continued)

The agriculture of the American Indian prior to the European conquest. By Everett E. Edwards. 1934. 9 p. A revision and condensation of the introduction to the writer's Agriculture of the American Indian: a classified list of annotated historical references, issued by the U. S. Department of agriculture library as its Bibliographical contributions 23 (2d ed., 1933) (Issued by Division of statistical and historical research)

Beefcattle outlook charts for use with the Agricultural outlook for 1935. 1934. 25 p.

Cotton outlook charts for use with the Agricultural outlook for 1935. 1934. 21 p.

Dairy products outlook charts for use with the Agricultural outlook for 1935. 1934. 32 p.

Development of a grading and inspection system for the purchase of sweet corn for canning. 1935. 9 p.

Driven-in receipts of livestock, 1934. 1935. 26 p. (Compiled by the Statistical section, Livestock, meats and wool division.)

The modern settlement movement in Germany. By Charles P. Loomis. 1935. 68 p. (Issued by Division of farm population and rural life)

The need of historical materials for agricultural research. By Everett E. Edwards. 1935. 8 p. (Issued by Division of statistical and historical research)

Rice, peanuts, soybeans, dry beans and broom corn outlook charts, for use with the Agricultural outlook for 1935. 1935. 21 p.

Sheep, lambs and wool outlook charts for use with the Agricultural outlook for 1935. 1935. 28 p.

Summary of the apple and pear export session, 1933-34. By F. A. Motz and A. C. Edwards. 1934. 69 p. (F.S.A.-438) (Issued by Foreign agricultural service)

Tax delinquency of rural real estate in 1,536 counties in 31 states, 1928-33. 1935. 4 p. (Issued by Division of agricultural finance)

Tobacco outlook charts, for use with the Agricultural outlook for 1935. 1934. 19 p.

Wheat outlook charts for use with the agricultural outlook for 1935. 1934. 24 p.

Bureau of Agricultural Engineering

Principles of soil erosion control. 1935. 5 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
(continued)

Bureau of Biological Survey

Aids for bird students, 5 p. Jan. 1935. Leaflet BS-2. (Issued by the Division of wildlife research)

The wildlife situation in the United States and its remedies. An address by J. N. Darling delivered at the 21st American game conference, New York City, Jan. 22, 1935. 8 p.

Winter food of ruffed grouse in New York. By Leon H. Kelso. 1935. 3 p. (BS-1) (Issued by Section of food habits research, Division of wildlife research)

Bureau of Entomology and Plant Quarantine

The eye gnat in the Coachella valley, California. By Robert W. Burgess. 1935. 6 p. (E-335) (Issued by Division of insects affecting man and animals)

Outbreak of black grain-stem sawfly in 1934 and comparison of its status with that of the European wheat sawfly. By C. C. Hill. 1935. 4 p. (E-334) (Issued by Division of cereal and forage insects)

Bureau of Plant Industry

Fungus specimens available for exchange. Supplement to list V. 1935. 15 p. (Issued by Division of mycology and disease survey)

Methods of reestablishing buffalograss on cultivated land in the Great Plains. By D. A. Savage. 1935. 4 p. (Issued by Division of forage crops and diseases)

Pasturing, harvesting, and feeding Russian-thistle. By D. A. Savage and L. C. Aicher. 1935. 6 p. In cooperation with the Kansas agricultural experiment station. (Issued by Division of forage crops and diseases)

SxP cotton in comparison with Pima. History of the SxP variety. 1935. 17 p. (Issued by Division of cotton and other fiber crops and diseases)

Wooly fingergrass. By H. H. N. Vinall. 1935. 4 p. (Issued by Division of forage crops and diseases)

Weather Bureau

Man's responsibility for droughts in the Great Plains. Presented by J. B. Kincer, before a meeting of the American meteorological society at Pittsburgh, Pa., Dec. 29, 1934. 6 p.

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## INSTITUTE OF FOREST GENETICS LIBRARY

The Institute of Forest Genetics is a national research institution resulting from the reorganization and enlargement of the Eddy Tree Breeding Station, established in 1925 by James G. Eddy of Seattle, Washington. It is a non-profit corporation devoted to forest research. The control is vested in a self-perpetuating Board of Trustees, national in representation, whose members were chosen because of their character, ability, and interest in the work. The Director is Mr. Lloyd Austin. The following description of the library of the Institute is taken from a letter from the librarian, Miss Annie M. Avakian, dated February 11, 1935:

"I wish I could send you a printed description of the Institute library. But we are in the process of organization, so all that I can do is to give you a brief description of it in so far as I have been able to become familiar with it since my appointment late in November. The pamphlet "Science seeks new trees for the forests of the future", issued by the Institute in 1932, describes the work of the Institute. Naturally our collection will be built about the purposes and methods of that work.

During the present fiscal year the Institute is being supported by the Forest Service and the Bureau of Plant Industry of the U. S. Department of Agriculture.

We are situated in the foothills about four miles east of Placerville, California. The town has a population of less than three thousand, and its library facilities are very limited. The State Library at Sacramento is fifty miles away, and the University of California is farther. So we are isolated from other libraries.

The Library is located in the administration building. The corner room at the left of the main entrance is being made into a periodicals room and library office; it measures about 12' x 18' and shelves will be placed around three sides of this room. Items other than periodicals will be filed in the vault which adjoins the periodicals room, and which measures about 10' x 15'.

Here is a rough description of our collection which Mr. Austin, our Director, estimates contains about 25,000 items.

Books - Approximately 500

Pamphlets - Government and state publications, including some from foreign countries. A fairly accurate check list of numbered bulletins, etc., has been kept.

Periodicals - About 60 received by purchase or gift. The practice has been to clip these after a year. We have a full set of the Agricultural Index, also some indexes of Biological Abstracts and Experiment Station Record, but the abstracts themselves are clipped.

Maps - Forest Service and Geological Survey topographic maps, also other maps. These are folded and filed in pamphlet boxes.

Nursery and seed catalogs.

Advertisment circulars of books, equipment, etc.

Clippings - From newspapers, magazines, and abstracting journals. Miscellaneous items, such as time tables. etc.

INSTITUTE OF FOREST GENETICS LIBRARY  
(continued)

Part of these items are arranged on the shelves in order of the old classification developed by the Director. The remaining portion is an unclassified accumulation of items which have been received during the past few years, and until our classification is completed this material cannot be readily available. Temporarily, however, I am arranging numbered items by series as I receive them. The final arrangement of these items will be by subject. In addition, there is a collection of experimental data sheets, in a vertical file, and a file of photographs and negatives.

I am enclosing a synopsis of the classification which the Director has developed since 1925 to meet the needs of the Institute. There are about 200 typewritten pages completed but there is yet a portion which is not completed. The classification, in the main, follows an alphabetical arrangement within the divisions and subdivisions of each class, and the notation also follows an alphabetical arrangement. When the classification is completed it will be fully indexed, and as far as I know this will be the only subject index to the items represented in our collection. No provision is being made now for the development of a card index.

How comprehensive our collection is I cannot say, for most of the material is unsorted and unclassified. There are not many items in foreign languages. I have before me a copy of "A bibliography of plant genetics" issued by the U. S. Department of Agriculture, but I cannot venture an estimate of the number of items we have from that list.

Before I came there was no trained librarian here. The Director has managed the work in conjunction with other pressing duties. My professional tools are few. They include: 13th edition of the Dewey Decimal Classification; Class S of the Library of Congress Classification; Scheme of Classification for the U.S. Department of Agriculture Library; Korstian's Classification of Forestry; Yale Forestry Classification; an English translation of some portions of the Classification Decimale (575, 576.1/7, 631.4/634.8 (except 632.134/7 and 632.95/7) and 635); Rowell Classification; Merrill's Code for Classifiers; List of subject headings used in the Forest Service Library; Sayers' Manual of Classification; Bliss' Organization of knowledge in libraries; other items of my own from library school; Agricultural Index; Biological Abstracts; Experiment Station Record; Agricultural Library Notes; Forestry Current Literature; and Plant Science Literature. We have no foreign language dictionaries, trade bibliographies or professional library journals, but I subscribe personally for Special Libraries.

The A. L. A. Bulletin also comes to me, and our state library sends News Notes of California Libraries, and lends the Library Journal.

Classification work must wait until the schedules are completed. Meanwhile there is the ever persistent need for building our collection so that it may be in vital relation to our research work. Our budget contains very little for books and periodicals, so the selection of many items must be deferred. We are, however, renewing our contacts with experiment stations and other state and government agencies for publications available without cost.

INSTITUTE OF FOREST GENETICS LIBRARY

(continued)

SYNOPSIS OF MAIN CLASSES

Subject Classification - Institute of Forest Genetics - November 1934

Abbreviation	COLLOCATED SYNOPSSES		ALPHABETICAL SYNOPSIS MAIN CLASSES
	ONE COORDINATE SERIES OF MAIN CLASSES	CUTLINE OF MAIN CLASSES	
	(Arranged as main classes are actually used in the files and in the classification)*		(Showing relationship of the 27 main classes to each other which is the basis for the order given in the column to the left.)**
		I-SCIENCES, ARTS & EXPERIMENTS	
G	<u>GENETICS</u>	<u>GENETICS</u>	A <u>ADMINISTRATION</u>
B	<u>BREEDING</u>	<u>BREEDING</u>	Bi <u>BIOMETRY</u>
S	<u>SPECIES SELECTION</u>	<u>SPECIES SELECTION</u>	Bo <u>BOTANY</u>
Ts	<u>TREE SELECTION</u>	<u>TREE SELECTION</u>	B <u>BREEDING</u>
P	<u>PROGENY TESTS</u>	<u>PROGENY TESTS</u>	C <u>CLIMATOLOGY</u>
Sg	<u>SEEDLING SELECTION</u>	<u>SEEDLING SELECTION</u>	E <u>ECOLOGY</u>
Sd	<u>SEED SELECTION</u>	<u>SEED SELECTION</u>	Eq <u>EQUIPMENT</u>
Ra	<u>RADIATION</u>	<u>RADIATION</u>	Fn <u>FOREIGN REPORTS</u>
Bi	<u>BIOMETRY</u>	<u>BIOMETRY</u>	F <u>FORESTRY</u>
F	<u>FORESTRY</u>	<u>FORESTRY</u>	G <u>GENETICS</u>
Pt	<u>PROTECTION</u>	<u>PROTECTION</u>	N <u>NUTRITION</u>
U	<u>UTILIZATION</u>	<u>UTILIZATION</u>	Ph <u>PHOTOGRAPHY</u>
Bo	<u>BOTANY</u>	<u>BOTANY</u>	Ps <u>PHYSIOLOGY</u>
E	<u>ECOLOGY</u>	<u>ECOLOGY</u>	P <u>PROGENY TESTS</u>
C	<u>CLIMATOLOGY</u>	<u>CLIMATOLOGY</u>	Pp <u>PROPAGATION</u>
W	<u>WATER RELATIONS</u>	<u>WATER RELATIONS</u>	Pt <u>PROTECTION</u>
Ps	<u>PHYSIOLOGY</u>	<u>PHYSIOLOGY</u>	Ra <u>RADIATION</u>
N	<u>NUTRITION</u>	<u>NUTRITION</u>	Rf <u>REFERENCE</u>
Pp	<u>PROPAGATION</u>	<u>PROPAGATION</u>	R <u>REPORTS</u>
Sc	<u>SCIENCE</u>	<u>SCIENCE</u>	Sc <u>SCIENCE</u>
Ph	<u>PHOTOGRAPHY</u>	<u>PHOTOGRAPHY</u>	Sd <u>SEED SELECTION</u>
		II-ORGANIZATION & MANAGEMENT	Sg <u>SEEDLING SELECTION</u>
A	<u>ADMINISTRATION</u>	<u>ADMINISTRATION</u>	S <u>SPECIES SELECTION</u>
Eq	<u>EQUIPMENT</u>	<u>EQUIPMENT</u>	T <u>TRAVEL</u>
Rf	<u>REFERENCE</u>	<u>REFERENCE</u>	Ts <u>TREE SELECTION</u>
R	<u>REPORTS</u>	<u>REPORTS</u>	U <u>UTILIZATION</u>
Fn	<u>FOREIGN REPORTS</u>	<u>FOREIGN REPORTS</u>	W <u>WATER RELATIONS</u>
T	<u>TRAVEL</u>	<u>TRAVEL</u>	

\* This type of arrangement will be omitted in all subsequent synopses.

\*\* In General, each main class includes all aspects of the subject in question except such phases and angles of the subject as are of sufficient importance to us to cause their elevation to the position of main classes. The logical relationship of all the main classes to each other is shown above by indentation.

In actual filing and classification all main classes are considered to be of first rank (as shown in column to left) regardless of their position in the above explanatory outline."

STATEMENT ON DISCUSSION GROUP MATERIALS

By Roy F. Hendrickson, Assistant to the Assistant Secretary of Agriculture.

DISCUSSION GROUPS - Summary Report of a Conference held in Washington,  
February 4, 5, 6, and 7, 1935.

DISCUSSION; A BRIEF GUIDE TO METHODS

Discussion Group Topic No. 1. - WHAT KIND OF FOREIGN TRADE POLICIES  
DO AMERICAN FARMERS WANT?

Discussion Group Topic No. 2 - IS IT IN THE INTEREST OF THE NATION TO  
HAVE MORE -- OR FEWER -- PEOPLE LIVING ON LAND?

Discussion Group Topic No. 3 - WHAT SHARE OF THE NATIONAL INCOME SHOULD  
FARMERS HAVE?

Discussion Group Topic No. 4 - SHOULD FARM PRODUCTION BE CONTROLLED AS  
A LONG-TIME POLICY?

Discussion Group Topic No. 5 - WHAT KIND OF LAND POLICIES SHOULD THE  
NATION HAVE?

Discussion Group Topic No. 6 - THE FARMER AND THE CONSUMER OF FARM  
PRODUCTS -- WHAT, IF ANY, ARE THEIR OBLIGATIONS TO ONE ANOTHER?

Discussion Group Topic No. 7. - WHAT KIND OF A RURAL LIFE CAN WE LOOK  
FORWARD TO IN THE UNITED STATES?

Discussion Group Topic No. 8 - IS THE FARM LABORER GETTING A SQUARE DEAL?

The above materials have been prepared in connection with an experiment in the development of rural discussion groups. This project has been undertaken by a committee appointed by the Secretary of Agriculture, cooperating with agencies of the Department of Agriculture and the land grant colleges of eleven states. The personnel of the committee follows:

Mr. M. L. Wilson, Assistant Secretary of Agriculture - Chairman

Mr. C. W. Warburton, Director of Extension Service

Mr. Alfred D. Stedman, Director, Division of Information,  
Agricultural Adjustment Administration

Mr. Milton S. Eisenhower, Director of Information,  
U. S. Department of Agriculture

Mr. Roy F. Hendrickson, Assistant to the Assistant Secretary -  
Secretary.

STATEMENT ON DISCUSSION GROUP MATERIALS  
(continued)

The cooperating land grant colleges were represented at a conference held in Washington on February 4, 5, 6 and 7, 1935, in response to an invitation issued by the Secretary, who said in his letter of invitation:

"One of the great present day challenges of agriculture is to provide opportunities for farmers and their families to obtain in fields aside from agricultural methods, information and more adequate means of understanding economic and social questions and changes..."

"There is an avenue which appears to hold great promise for meeting this need, centering about the development of forums and discussion groups in rural areas. A committee of members of the Department staff has recently given this subject considerable study and has concluded that the discussion method deserves greater encouragement. But it is felt that, while the method is old, more knowledge of discussion techniques and the whole field of their possibilities is highly desirable, warranting experimentation."

As a result of a program worked out at the conference, from five to seven discussion experiment groups, varying in type and character, have been established by representatives of land grant colleges in the cooperating states. Through the experiment it is hoped to gain more adequate information regarding the type of leadership necessary for carrying on discussion groups, the most desirable number of members of a group in order to insure maximum participation in discussions, the type of material which is the most useful, and other information as well as experience.

The materials listed above, all mimeographed by the Department of Agriculture during February, 1935, have been prepared for use in connection with the experiment with rural discussion groups being conducted by the Department of Agriculture, cooperating with the land grant colleges.

Supplementing the program of experiment discussion groups, a series of radio dialogues has been broadcast during the Farm and Home Hour programs each Tuesday, starting February 19, in which the subjects discussed over the radio were the same as those covered by the material prepared.

The numbered discussion group topics are aimed to serve as a "stimulator" for leaders and members of discussion groups. In addition to pointing to the importance of the main question raised, a number of secondary questions are listed, and also there is a statement of points of view under the heading, "Some Pros and Cons." The statement of Pros and Cons, as explained in each mimeographed leaflet, is not intended to be necessarily complete. This is in keeping with a finding that the "stimulator" can serve principally one of two purposes, or both; namely,

STATEMENT ON DISCUSSION GROUP MATERIALS  
(continued)

first, as a means of acquainting leaders and members of discussion groups with the discussion possibilities of a topic in advance of the discussion meeting, and, second, supplying members with information which will guide them in following up interest which may have been aroused in the topic subsequent to the discussion.

The chief aid in carrying on this second purpose is a bibliography which accompanies each discussion group topic. The U. S. Department of Agriculture Library cooperated in the preparation of these bibliographies. The bibliographies concentrate particularly on low cost publications which are easily available. An attempt has been made to make certain that the bibliographies include a large proportion of references from other than Departmental sources.

"Discussion: A Brief Guide to Methods" consists of 12 pages and a bibliography, being a terse description of discussion methods and information in connection with establishing discussion groups. Sub-heads include, "Why Use Discussion Methods"; "Three Important Discussion Methods;" "The Discussion Group"; "The Panel"; "The Forum"; "Combinations of the Three Methods"; "Meeting Plans"; "Selection of Subjects for Discussion"; "Conducting the Discussion"; and "Materials -- Preparation of Data."

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# AGRICULTURAL LIBRARY NOTES

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WASHINGTON  
D. C.



AGRICULTURAL LIBRARY NOTES

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PRINCIPAL LIBRARY ACCESSIONS

Advertising

HARDING, T. S. The popular practice of fraud. London, Longmans, Green, 1935.

Agricultural history

[TRUE, R.H.] Sketch of the history of the Philadelphia society for promoting agriculture; prepared for the celebration of the 150th anniversary of its foundation. [Philadelphia? 1935?]

Agriculture

DÁNTÍN CERECEDA, JUAN. Dry-farming ibérico. Nuevos métodos de cultivo de las tierras de secano en España y América. Ed. 2. Madrid, Artes de la ilustración [1934?]

ROSS, W. A. Elementary agriculture of Wyoming. Revised edition. Sheridan, Wyo., Mills company, 1934.

Cereals

ITALY. DIREZIONE GENERALE DELL'AGRICOLTURA. La bataille du blé en Italie. Rome, 1930.

NETHERLANDS. TECHNISCHE TARWE COMMISSIE Verslagen. I. Opzet en methodiek. II. Rassenproeven. Door ir. R. H. Visser (with a summary in English) Groningen, 1934.

TOMA, ROLANDO. Sviluppi della battaglia del grano in alto Adige (decennale della marcia su Roma) Trento, Tipografia ed. mutilati e invalidi, 1932.

Chemistry

FOWLER, G. J. Industrial possibilities of some research work done in India. Bangalore City, Society of biological chemists, India, 1934.

Dairying

ILLINOIS. UNIVERSITY. DEPT. OF DAIRY HUSBANDRY. Dairy manufactures short course manual. Jan. 22-26, 1934. Urbana, 1934. Mimeographed.

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Second International Congress of Rural Engineering, Madrid, 26th September-3d October, 1935. Secretary of Organizing Committee: E. Aranda Heredia, Amadeo Vives, 10, Madrid (12), Spain.

Third International Congress of Soil Science, Oxford, England, July 30-August 7, 1935. [Secretary] G. V. Jacks, Imperial Bureau of Soil Science, Harpenden, England.

Fourth International Technological and Chemical Congress of the Agricultural Industries, Brussels, Belgium, July 15-28, 1935.

V. Congrès International des Plantes Médicinales et Aromatiques, Bruxelles, du 30 Juillet au 2 Août 1935, dans les locaux de l'Exposition Internationale et Universelle. Secrétariat Général: 46, chaussée de Neerstalle, Fores-Bruxelles, Belgium.

Sixth International Botanical Congress, Amsterdam, Holland, September 2-9, 1935. Hon. Secretary: Mr. M. J. Sirk, Wageningen, Holland.

XIIe Congrès International de Zoologie, Lisbonne, 15-21 Septembre 1935. Comité Organisateur, Secrétaire, Dr. Fernando Frade V. da Costa, Prof. a. de Zoologie à la Fac. des Sc. de l'Univ. de Lisbonne et Naturaliste au Musée Bocage.

Congrès International de Sylviculture et du Carbone-Carburant près l'Exposition Universelle et Internationale de Bruxelles, 26 et 27. Juillet 1935. Comité organisateur: Le Secrétaire, Eug. Paschal, rue de Méridien no. 5, Bruxelles, Belgium.

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### PROPOSED FORMATION OF A SECTION OF AGRICULTURAL LIBRARIANS IN CONNECTION WITH THE INTERNATIONAL CONGRESS OF THE AGRICULTURAL PRESS, ROME, ITALY, JULY 26-27, 1935.

The International Committee of the Agricultural Press (headquarters in Rome, via Vittorio Veneto 7) is planning to organize an International Congress of the Agricultural Press to be held at Brussels, Belgium, July 26-27, 1935. At this Congress a report will be given by Dr. Reich, the General Secretary of the Tschechoslovakian Academy of Agriculture, on agricultural libraries, and it is proposed to establish at that time a "Section of Agricultural Librarians." This matter has been brought to the attention of American agricultural librarians through Dr. Sigmund von Frauendorfer, Librarian of the International Institute of Agriculture, Rome, Italy. An expression of opinion from agricultural librarians will be appreciated regarding the establishment of an international group of agricultural librarians under the auspices of the Committee mentioned above. Information as to whether American librarians would be willing to participate at the Congress is also desired from agricultural librarians.

Charlotte A. Baker, Chairman,  
Agricultural Libraries Section,  
American Library Association.

Address:

Charlotte A. Baker, Librarian,  
State Agricultural College,  
Fort Collins, Colorado.

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- Butchers' and packers' gazette. Chicago. Changed to Meat dealer and butchers'  
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Florida

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Georgia

The farm pork supply. W. S. Rice and L. H. Marlatt. (Ga. Agr. Col. Ext. Bul. 448.) Athens, 1935.

Save steps with a kitchen sink. G. I. Johnson. (Ga. Agr. Col. Ext. Circ. 259.) Athens, 1935.

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Illinois

Tomato diseases and insect pests, identification and control. K. J. Kadow and L. H. Shropshire. (Ill. Agr. Expt. Sta. Circ. 428.) Urbana, 1935.

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\*Prepared in Office of Experiment Stations Library

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING MARCH 1935  
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Indiana (Continued)

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Maryland

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Massachusetts

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Michigan

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Minnesota

Use of the level on the farm. H. B. Roe. (Minn. Univ. Agr. Ext., Agr. Engin. News Letter no. 34.) University Farm, St. Paul, 1935.

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LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING MARCH 1935  
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Suggested method of procedure for home demonstration clubs. M. W. Barry. (Tex. Agr. Col. Ext. [Circ.] C-54 [rev.]) College Station, 1934.

A working manual for county home demonstration councils. M. W. Barry. (Tex. Agr. Col. Ext. [Circ.] C-78 [rev.]) College Station, 1934.

Subirrigation for gardens. M. R. Bentley and J. F. Rosborough. (Tex. Agr. Col. Ext. [Circ.] C-97 [rev.]) College Station, 1934.

Utah

The milky way. E. Miller. (Utah Agr. Col. Ext. Circ. 33 [rev.]) Logan, 1934.

Washington

Recommendations for codling moth control in Washington for 1935. Prepared by representatives of the Experiment station and the Extension service and others. (Wash. State Col. Ext. Bul. 201.) Pullman, 1935.

Alfalfa hay an economical feed for dairy cows. J. C. Knott and C. C. Hampson. (Wash. State Col. Ext. Circ. 23.) Pullman, 1935.

Washington 4-H club subject matter material. (Wash. State Col. Ext. 4-H Circ. 32.) Pullman, 1934.

West Virginia

The food we buy. G. Humphreys. (W. Va. Agr. Col. Ext. Good Living Ser. III, Lesson no. 4, Adventures in Better Living.) Morgantown [1935]

Around the clock with the family. G. Humphreys. (W. Va. Agr. Col. Ext. Good Living Ser. III, Lesson no. 5. Adventures in Better Living.)

Wyoming

Wyoming agricultural situation for 1935. A. W. Willis. (Wyo. Agr. Col. Ext. Circ. 57.) Laramie, 1935.

Fruit raising in Wyoming. W. O. Edmondson. (Wyo. Agr. Col. Ext. Circ. 58.) Laramie, 1935.

Simple hospitality. E. Jennings. (Wyo. Agr. Col. Ext. Circ. 59.) Laramie, 1935.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
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Office of the Secretary

Farm practice and agricultural adjustment. A radio talk by Henry A. Wallace in the Department of agriculture period, National farm and home hour, March 8, 1935. 7 p.

Identities of interest in restoring foreign trade. Address of Henry A. Wallace in the series of radio broadcasts on World trade and recovery, Washington, D.C., March 30, 1935. 12 p.

The need for unifying purpose. Address by Henry A. Wallace at the annual meeting of the Foreign policy association, New York City, March 16, 1935. 21 p.

The problem of farm tenancy. Statement by Secretary Henry A. Wallace at hearings on the Bankhead tenancy bill, S. 1800, March 5, 1935. 11 p.

What is a desirable tax system? Discussion Group Topic No. 9.

Agricultural Adjustment Administration

Alfalfa hay and alfalfa meal in weevil infested areas; their relation to feeding needs in the drought area. 1935. 3 p.

America must choose her course in foreign trade. 21 p. Discussion group material issued by the Regional contact session.

Chemical composition and feeding value of Argentine corn. 1935. 2 p. (FF7-M7)

Cotton in the nation's cropping program. An address by Cully A. Cobb before the Southern agricultural workers' association in annual convention at Atlanta, Georgia, January 31, 1935. 12 p. (Issued by Commodities division, Cotton production section)

The cotton program under the Agricultural adjustment act and the cotton act of 1934. Address by E. D. White before the Institute of public affairs, Southern Methodist university, Dallas, Texas, February 1, 1935. 10 p. (Issued by Cotton production section)

Facts on demand conditions and the need for continued agricultural adjustment. 1935. 17 p. Material used in address of L. H. Bean before West Detroit business executives' forum, March 1, 1935.

The flue-cured tobacco adjustment program for 1935. By J. B. Hutson. 1935. 5 p.

\*Bibliographies included in general list of bibliographies on page 118.

\*\*For a list of the principal series issued regularly, see v. 9, no. 10, p. 354.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Agricultural Adjustment Administration

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Foreign cotton production. By Lawrence Myer. 1935. 13 p. Presented at the annual convention of Southern agricultural workers, Atlanta, Georgia, January 31, 1935. (Issued by Commodities division, Cotton processing and marketing section)

Is American agriculture in crisis? 1935. 21 p. Discussion group material issued by the Regional contact section.

The Mouse river area water utilization plan for the Mouse river in North Dakota. Prepared by Francis R. Kenney. 1935. 24 p. (Issued by Division of program planning, Land policy section)

The present feed situation. 1935. 5 p. (FF7-M4)

The processing tax. 1935. 16. p. Discussion group material prepared by Regional contact section.

Report, meetings of representatives of cattle industry, Washington, D. C., Feb. 27-28, 1935; March 5-6, 1935. 65 p.

Security for agriculture. 1935. 10 p. Discussion group material issued by Regional contact section.

Security for the farm home. 1935. 10 p. Discussion group material issued by Regional contact section.

Some facts about agricultural exports. Statement by Chester C. Davis before the Senate committee on agriculture and forestry, February 4, 1935. 16 p.

Statement made on Tuesday, February 26, 1935, by Chester C. Davis before the House committee on agriculture, concerning H.R. 5585 and S. 1807, amending the act. 1935. 13 p.

Bureau of Agricultural Economics

Average monthly price and price relatives for fresh eggs at wholesale at five markets, 1909-1934. By Gordon W. Sprague. 1935. 14. p. (Issued by Division of dairy and poultry products)

Brief summary, marketing western New York and Pennsylvania grapes. Season of 1934. Feb. 19, 1935. 6 p. (Issued in cooperation with New York State Department of agriculture and markets)

Car-lot shipments of fruits and vegetables by commodities, states and months (including boat shipments reduced to car-lot equivalents) calendar year 1934. Preliminary, subject to revision. 1935. 24 p.

Dairy and poultry market statistics 1934 annual summary. Feb. 1935. 37 p.

Development of a grading and inspection system for the purchase of sweet corn for canning. Feb. 21, 1935. 9 p.

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Bureau of Agricultural Economics  
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Tax delinquency of rural real estate in Kent and New Castle counties, Del., 1928-1933. 1935. 6 p.

Tax delinquency of rural real estate in 9 Oregon counties, 1928-33. March 6, 1935. 13 p.

Tentative U. S. grades for churning cream. Feb. 15, 1935. 3 p.

Why not a single set of standards for beef grades? By B. F. McCarthy. Jan. 7, 1935. 4 p.

Bureau of Agricultural Engineering

Drainage and irrigation publications of the Bureau of agricultural engineering. 1935. 4 p.

Memorandum for E.C.W. camps in Nebraska relative to terraces and other erosion control structures. Prepared by C. A. Frye in collaboration with I. D. Wood, Under the direction of Lewis A. Jones. 1935. 14 p.

Bureau of Biological Survey

The present situation regarding eelgrass (*Zostera marina*). By Clarence Cottam. Leaflet BS-3. 7 p. Feb. 1935.

Available publications of the Bureau of Biological Survey. Compiled in the Division of public relations. Leaflet BS-4. 6 p. March 1935.

Bureau of Chemistry and Soils

Instructions for field work in peat and muck resources. By A. P. Dachnowski-Stokes. 1935. 7 p. (Issued by Soil survey division)

Bureau of Dairy Industry

Compressing hardened ice cream affords a ready means for making a product of uniform density. By O. E. Williams. 1935. 2 p. (BDIM-655)

Rules for students' national contest in judging dairy products, 1935. 9 p.

Bureau of Entomology and Plant Quarantine

An apparatus for the uniform release of volatile chemicals for use in chemotropic studies with insects. By G. L. Smith, 1935. 2 p. (ET-37) (Issued by Division of cotton insect investigations)

Fall chinch bug survey trials in standing corn. By C. M. Packard and C. Benton. 1935 8 p. (E-337) (Issued by Division of cereal and forage insect investigations)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics  
(continued)

Farm real estate taxes in 35 states, 1913-1933. 1935. 4 p. (Issued by Division of agricultural finance)

Livestock, meats, and wool market statistics and related data, 1933. 1935. 124 p. (Compiled in Livestock, meats and wool division by the Statistical and research sections)

The margin between farm prices and retail prices of ten foods. By Frederick V. Waugh. 1935. 9 p. (Issued by Division of marketing research)

Marketing California asparagus 1934. By W. F. Cox and W. L. Jackson. 30 p. (Issued in cooperation with California Department of agriculture, Bureau of market news)

Marketing Michigan grapes 1934 season. 4p. Feb. 6, 1934. (Issued in cooperation with Michigan Department of agriculture, Bureau of foods and standards)

Marketing Michigan peaches 1934 season. 2p. Feb. 18, 1935. (Issued in cooperation with Michigan Department of agriculture, Bureau of foods and standards)

Meat cutting and pricing methods. By Arthur T. Edinger. 1935. 40 p. (Issued by Livestock, meats and wool division)

Monthly receipts from the sale of principal farm products, by states, with rental and benefit payments, January 1932 to December 1934. Prepared by C. M. Purves and Nathan Koffsky for the Committee on monthly farm income. 1935. 63 p.

The Oregon butter code and improved quality. By R. S. Smith and J. D. Mickle. 1935. 11 p.

Population and occupational shifts. By O. E. Baker. 1934. 19p. (Issued by Division of land economics)

Population trends and the national welfare. Facts and observations as to rural-urban migration and a declining birth-rate. By O. E. Baker and T. B. Manny. 1935. 28 p. (Issued by Division of land economics and Division of farm population and rural life)

Receipts from the sale of principal farm products by states, including rental and benefit payments, January 1932-1935. 3 p. (Issued by Divisions of statistical and historical research, and crop and livestock estimates)

Revised estimates of barley acreage, yield and production, 1866-1929. 1935. 47 p.

State agricultural departments and marketing agencies with names of officials. 1935. 6 p. (Compiled in the Division of economic information)

Statistics relating to the citrus industry 1934. 1935. 56 p.

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Bureau of Entomology and Plant Quarantine  
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A revolving screen trap for collecting insects. By G. L. Smith, J. C. Clark, and A. L. Scales. 1935. 2 p. (Et-36) (Issued by Division of cotton insect investigations)

Suggestions for the control of the pea weevil in Oregon. By A. O. Larson and Frank G. Hinman, 1935. 5 p. (E-339) (Issued by Division of truck crop and garden insect investigations)

Extension Service

Teaching of child development through 4-H club work. By Esther Mildred Friesth. 1935. 60 p. (Extension service circular 209)

Forest Service

Complete list of Forest Service publications. 77 p. Rev., Feb. 1, 1935.

Grain Futures Administration

Annual volume of trading in Chicago wheat futures in relation to supplies of wheat, by crop years, 1922-23 to 1933-34. By Paul Mehl. 1935. 8 p.

Bureau of Home Economics

Buying bedspreads. By Bess M. Viemont. 1935. 6 p.

What the consumer has a right to expect in the serviceability of dress fabrics. By Ruth O'Brien. 1935. 7 p. Read at the annual convention of the National retail dry goods association, Jan. 18, 1935.

Bureau of Plant Industry

Comparison of winter-wheat varieties grown in cooperation plot and nursery experiments in the hard red winter-wheat region in 1934. 1935. By K. S. Quisenberry. 1935. 56 p. (Issued by Division of cereal crops and diseases)

Cooperative uniform comparison of Krug top crosses, 1934. By Merle T. Jenkins. 1935. 10 p. (Issued by Division of cereal crops and diseases)

Results from cooperative wheat varietal experiments in the western region in 1934 with averages for 1931 to 1934. Compiled by B. B. Bayles. 1935. 83 p. (Issued by Division of cereal crops and diseases)

Results of spring-wheat varieties grown in cooperative plot and nursery experiments in the spring-wheat region in 1934. By J. Allen Clark. 1935. 23 p. (Issued by Division of cereal crops and diseases)

Willow diseases in relation to tree planting. By H. F. Winter. 1935. 6 p. (Issued by Division of forest pathology)

SELECTED LIST OF MEMOGRAPHED PUBLICATIONS  
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Office of the Solicitor

A resume of executive orders and proclamations pertaining to Title I and II of N.R.A. January 1, 1933-January 1, 1935. 1935. 19 p. (Issued by Agricultural Adjustment Administration division, Legal, economic and legislative information section)

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OFFERS

The Library of the U. S. Department of Agriculture has for exchange copies of the following works:

Conference of empire meteorologists. Agriculture. Section. 1929.

I. Report; II. Papers and discussions.

Congrès international d'agriculture tropicale. 5th, 1930. Anvers, Belgium. [Compte-rendu]

Congrès international de laiterie. 9th, 1931. Copenhagen. Compte-rendu.

Congrès international d'oleiculture. 9th, 1928. Tunis, Sousse sfax (Tunisie). [Tome I: Partie générale; Tome II: Travaux du congrès]

Congrès international des plantes médicinales et des plantes à essences. 4th, 1931. Paris. (Compte-rendu)

International botanical congress. 5th, 1930. Cambridge, England. Abstracts of communications.

International congress of genetics. 6th, 1932. Ithaca, New York.

Proceedings: v. 2. Condensed articles and descriptions of exhibits.

International congress of soil science. 1st, 1927. Washington, D. C.

Abstracts of the proceedings; Proceedings and papers...Transcontinental excursion and impressions of the congress and of America.

International cotton congress. 1927. Egypt. Official report.

International meteorological committee. Commission for the study of clouds. International atlas of the clouds and of the states of the sky. Abridged edition for the use of observers. Paris, 1932.

Patil, Rao Bahadur P. C. Principles and practice of farm costing with farm studies. Department of Agriculture, Bombay. 1933.

World's poultry congress. 4th, 1930. London. Report of proceedings.

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LOST BOOKS

The following books cannot be found. It will be appreciated if anyone having information in regard to them will notify the Loan Desk of the main Library:

Biochemisches journal. v. 23, pp. 1-586. 1929.

London, Edinburgh and Dublin Philosophical magazine.

v. 31, Jan.-June 1916.

Russell. Soil conditions and plant growth. 1932. ed. 6.

Copy 3 and copy 5.

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THE LIBRARY OF THE MUSEUM OF NATURAL HISTORY, PARIS, FRANCE  
ORIGIN AND DEVELOPMENT\*

By L. Bultingaire  
Librarian

The library of the National Museum of History, whose existence is quite unknown to the general public, occupies the end of a large gallery skirting the Rue de Buffon, close to the Rue Geoffroy-Saint-Hilaire. Its entrance, an inconspicuous glass door, is hidden beneath a peristyle labeled "mineralogy". There is nothing to indicate that beyond the threshold lies one of the greatest libraries of Paris, considered the oldest and richest of special libraries.

Specialization, from the first, has distinguished this library from the numerous libraries, both old and new, which attempt to embrace all of human knowledge. Founded June 10, 1793, by one of the articles of the decree of the national convention establishing the museum of natural history on the site of the former Jardin du Roy, the intention from the first was that it should be devoted to the natural sciences and should collect only works relating to these sciences.

The duplicates of books in the Bibliothèque Nationale and books collected from suppressed ecclesiastical institutions were transferred to the new library. It also received the books seized from political exiles and prisoners, these additions being so numerous that the museum library was almost swamped from its very beginning. Later on, parts of libraries and even complete libraries of learned men were added to its already considerable collection. Among these, three have been of fundamental importance. They are: the library of Charles Lucien Bonaparte, a nephew of the emperor and an ornithologist of note, whose books and manuscripts dealt not only with natural science but also with science in general and with the history and politics of his time; the library of Chevreul, especially rich, as was to be expected, in works on chemistry and alchemy; finally, the library of Dr. Mandl, composed mainly of works on anatomy and physiology. Besides these, there are numerous books bearing the book-plates or names of famous naturalists, left by them to the library in their wills, or secured from their relatives by gift or by purchase. Thus there are found such well-known names as Jussieu, Dumeril, Geoffroy Saint Hilaire, Henri Milne Edwards, and, above all, Georges Cuvier, the greater part of whose library went to the museum.

The collection of manuscripts, drawings, and water-colors became established in a similar way, bequests and gifts often adding new material of this kind, whereas the printed matter thus acquired frequently duplicated works already in the library. Such liberality may be a burden and injure the scientific organization of the library's work for, unable to keep up with the cataloguing, the desiderata are unknown.

Moreover, for a long time libraries considered it a duty to keep on the shelves all books presented, even when, being duplicates, they were useless. The greatest handicap of many large libraries is the absence or reduction of funds for new acquisitions, and gradually it is being admitted that, lacking formal stipulations for the disposal of duplicates, the best recognition to be shown to a donor is to use such works for exchange and thus enlarge the actual resources for students. Such exchanges are being made and have resulted in the reduction of the stock of useless books and have aided the acquisition of more desired works.

\*From *Revue Scientifique*, 67e année, Aug. 24, 1929, pp. 484-489. Translated from the French by William E. Jordan, U. S. Department of Agriculture Library.

THE LIBRARY OF THE MUSEUM OF NATURAL HISTORY, PARIS, FRANCE  
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We were among the originators of the system of exchanging the publications of the museum for those of other scientific institutions and societies, thus enriching our collection. In the year 1802 the professors of the museum decided to publish the results of their investigations in a large periodical, the *Annales du Muséum*, and to send this to their scientific correspondents in the Old and New World. In exchange for this publication, which is now called *Archives du Muséum*, and its companion publication begun in 1895, the *Bulletin du Muséum*, we have received the publications of all the great academies, scientific societies, and those of such establishments and organizations whose activities touch more or less upon the natural sciences.

The library, growing thus for more than 125 years, represents a unique collection in Paris, and we are able to say that this system of exchange has helped our institution to pass through the critical period of the reduced value of the franc without ceasing to supply its naturalists with new material.

The museum library has almost always had a budget for purchases. However, this budget has varied greatly, depending on the fluctuations in the general prosperity of the country and the degree of interest which the government has shown in the museum. We shall return to this question but here we may assert that the library of the museum would never have attained the development it has if it had been obliged to content itself with the usual resources placed at its disposal by its budget.

To give an exact idea of the contents of the library, it is not sufficient merely to enumerate its 350,000 volumes, its thousands of maps and drawings, but it is necessary also to consider them from three points of view, namely, as a repository for works on natural history, as a library of art, and third, as a research center for the use of naturalists.

The Library's collection. The library owns most of the books dealing with natural science produced since the beginnings of printing, the term "natural science" being used in its more inclusive meaning as it was at the time the institution was founded, to cover physics, chemistry, agriculture, stock-raising, and, to a certain extent, medicine. These various branches of knowledge have since then so developed that numerous special institutions have sprung up but the library preserves the early records of the time when these studies were the province of the museum staff.

The first place belongs to the scholars who investigated the three natural kingdoms, and it is here that we find numerous editions of Aristotle, Pliny, Gesner, Aldrovandi, Bauhin, and Clusius, not forgetting to mention Belon and Rondelet, who were the first to write about natural science in the simple French of the sixteenth century. Although these works are not consulted very much at present, they remain as impartial witnesses of the continued progress of natural science, and they are always of value to those interested in the evolution of science. It is interesting to recall that such scholars as Cuvier and Chevreul secured their first interest in science through reading these old authors.

The valuable collections of early voyages have not lost their interest as is evidenced by their frequent reprinting. In the library are a great many of the works of the earliest navigators recording their experiences and impressions on their voyages of discovery. Ethnologists are aware that these works offer an almost unexcelled source of material concerning the human race; botanists and zoologists refer to them to establish the modifications in flora and fauna of remote regions since the arrival of the Europeans.

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More interesting still, from the documentary point of view, are the manuscripts. Most of these have been classified and notes concerning them have appeared in a volume of the Catalogue of manuscripts in public libraries in France. They contain, in addition to the studies of naturalists, information of the greatest importance on the history of colonization. The Americans especially have spared no effort to procure copies of these texts, knowing that they contain records of their own countries.

But it is not indispensable that these books and documents should have an immediate usefulness in order to be appropriately assigned a place in the library of the Museum. It is also to show our gratitude to those who have made the first progress in the natural sciences that we conserve with honor their works and mementoes in the place where their successors continue their efforts. It is also to be hoped that plans for regrouping them, now actually in progress, will result in the concentration in the library of the Museum of a great number of documents which, because they are scattered, have lost part of their value. It is with this in mind that we have obtained, by exchange with the municipal library of Versailles, the manuscript of the naturalist Savigny, one of the scientists taken by Bonaparte to Egypt, and also the original water-colors used to illustrate the well known scientific publications of that expedition.

The Art Library. It may seem surprising that as scientific an institution as the Museum should possess an art collection but we must consider that the majority of objects studied by naturalists are identical with those which artists seek to delineate. It may be that the early naturalists were contented with representing the results of their observations schematically. When accurate representations were wanted, they could not resist adding a little of the natural grace and splendor which nature gives to all it has created. As there are some who study flowers in order to classify them in herbaria, there are others who arrange them in bouquets and try to preserve their image before they wither.

When the Jardin du Roy was opened to the public, painters came to the greenhouses for plant models. It was not long before the garden had its official artists who painted the flowers, especially the rarest and most beautiful, as soon as they were in full bloom. As an accurate reproduction showing the smallest details was demanded by the naturalists, only competent artists were employed who made each picture a true work of art.

These water colors which were at first of flowers and birds but later on of all the principal productions of nature, constitute the magnificent collection of paintings on vellum carried on uninterruptedly to the last years of the nineteenth century.

In addition to the 6,000 items in this collection, the library possesses other thousands of water colors and drawings, hundreds of pencil drawings such as those used in engraving the "Recueil des plantes" of the "Chalcographie du Louvre", wrongly confused with the pictures on vellum under the impression that some of these were used as models; there are the original water colors used for illustrating some of the records of voyages, and numerous albums of flowers and birds by French or foreign artists. In respect to the art of graphic duplication, there are many etchings and engravings, in black or with colors, wood cuts, litho-graphs, photo-engravings, and others by the modern processes. These are either gathered together in portfolios or in albums, or distributed in the scientific works for which they were intended. As representative in the art collection may be mentioned Audubon's "Birds of America",

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quite the largest when we consider its dimensions of 98 cm. by 63 cm., picturing the birds natural size. Among the other works the library has the animal pictures painted by Levaillant, Hemminck, Lesson and Gould, and the famous albums of flowers illustrated by Redoute.

The Library as a Place of Research for the Naturalists. However interesting our collections of old books and art-works may be, it is readily understood that the museum library must primarily be a living part of a modern institution, and that it must assist in performing the museum's role in the country's scientific life. In order to understand this function of the library, we must emphasize that the work of the museum's naturalists has other purposes besides interesting the people who know this institution only through their visits to the botanical garden and the zoological park, and who pass through its magnificent galleries without really comprehending the exhibits.

In reality the primary occupation of the museum's experts, and the reason for the establishment of its extensive galleries, which, in the course of time, have become too small for its exhibits, is the describing, distinguishing, and classifying of the minerals, plants, and animals, including man and those organisms that have become extinct, naming and arranging newly discovered species, and selecting and preparing specimens for public exhibits. But these savants would not merit the name if they did not seek to discover the laws governing living and inert matter. They would also neglect their duty if they failed to make their work useful to the progress of humanity.

Thus they concern themselves on the one hand with problems of pure science such as those of the origin of life, the unity of species, the populating of continents, evolution, heredity, adaptation, vulcanism, earthquakes and the nature of meteors. On the other hand, they deal with such practical problems as the improvement of agriculture, proper application of fertilizers, increasing food resources through the study of the stocking of seas and rivers, the utilization by industry of colonial products, and the study of ways of exploiting mineral resources.

We see, from these examples, what an abundance of research material a library like that of the museum must keep for the use of its naturalists in aiding them to accomplish their work. Any plant, mineral, or animal represents discoveries in all quarters of the world and studies made by all the naturalists who have examined them. There is no region so desolate that the study of its geology is of no interest, nor any stretch of water which may not offer a field for useful biological investigations. In addition to the treatises which present this acquired knowledge, and the journals of scientific expeditions, the periodical literature must also be preserved. This constitutes thousands of volumes, often of imposing size, giving information about the work of private and official institutions engaged in investigations of the earth and sea, about the work of museums, laboratories, scientific societies, and individuals who devote themselves to the study of nature.

But we hasten to add that this material is so numerous that the principal function of a library of natural history is to furnish its readers with means to find information about the subjects that especially interest them without too great waste of time. The literature of a single subject, zoology, for instance, contains every year more than 10,000 articles of note, distributed in about 1,200

THE LIBRARY OF THE MUSEUM OF NATURAL HISTORY, PARIS, FRANCE  
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periodicals printed in the principal languages of the world. The total number of volumes added by a library embracing all the natural sciences is thus seen to mount to a fantastic figure. It is only through excellent bibliographical facilities that this material is made available.

A library like that of the museum aids its readers by means of alphabetic author and subject catalogs which list only such publications as theses, brochures, separates, etc., constituting separate items. In addition the library collects such bibliographies and indexes as may be of help in searching the periodical literature. Among these bibliographic compilations are kept the "Catalogue of scientific papers" and the works of Pritzel which list what has been published on specific subjects during earlier periods. There are also such current bibliographies as "Zoological Record" and "Bibliographie géologique". It acquires the recent bibliographies on special phases of natural history knowing that a bibliography of even one page may frequently save the perusal of hundreds of volumes.

Its efforts in this field are unfortunately handicapped by insufficient international bibliographic organization and the misfortunes attending the enterprises which have tried to remedy this condition. The "International catalogue of scientific literature", which abstracted all the periodicals of the world, has ceased to exist. The "Concilium bibliographicum", which furnished the same information by means of printed cards, has reduced its work to certain special lines. The national bibliographies which are continued are certainly not worthless but offer only an incomplete documentation, uncertain and scattered. In enumerating these inadequacies and difficulties, we show the efforts which a library of natural history must put forth in order to make available a reasonable part of the literature which exists.

The Libraries of the Laboratories. We have not mentioned all the resources of the library if we fail to mention that the so-called "central library" is complemented by as many special libraries as the museum has professorial chairs and laboratories. These libraries, established largely through the generosity of former professors or devoted amateurs, are rich in works and papers dealing with special problems of the laboratory's province, some, for instance, having all works on Arachnida, on mushrooms, or on ferns. The union of the catalogs of these secondary libraries with that of the central library is about to be realized (1920) thanks to a subvention which M. Alfred Lacroix has obtained from the Academy of Sciences in order to carry out this project. A preliminary study has shown that from 50 to 75 percent of the works possessed by the laboratories are not duplicated in the collection of the central library. The initiation of similar projects can not be stressed too much nor can we recommend too much that the example given by the professors of the museum be followed by their colleagues in other institutions. It is fitting that the laboratory collection be reserved for its workers, as the books, like instruments, are part of the laboratory, and that the professors, who very often have personally started and developed the collection, be the only ones permitted to withdraw books. However, in the name of scientific solidarity and investigation, no scientific work should be withheld which is unobtainable at the public libraries. The director of the laboratory should be the sole judge of the conditions under which the work might be borrowed.

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The Lacunae. The museum library occupies a prominent place among French libraries since it has, as we have shown, an extremely rich collection of early books on natural history, a collection of original documents of great interest, rivaling art repositories in its quality and quantity, and is increasing steadily by exchanges with scientific institutions over the whole world. We might also state that its future seems secured, not only on account of the important place which special libraries hold at present, but also because the natural sciences represent so well delimited a field that for a long time yet it will be desirable to keep together works dealing with these sciences.

Let us now see what is needed in order to fulfill completely its purpose, and prevent its being excelled by other similar institutions. Like all other French libraries it lacks sufficient funds. Its budget, lower than before the war, hardly allows it to make more than a partial selection of all the books which it desires to obtain. In addition to the publications acquired through exchange there are numerous others of importance which may be obtained only by purchase at almost prohibitive prices considering the reduced value of the franc. Unlike its status at the beginning of the century, our library is not now one in which every good work dealing with natural history can be found. This poverty is reflected in the care accorded the books and in the physical equipment. For instance, we have had to delay the installation of improved book-stacks, and the application of methods that are so useful in keeping the collections in order and getting the books rapidly to the readers.

This lack of facilities has its repercussion in the organization of the bibliographic work of the library, in that the results are mediocre, just as they are in nearly all French libraries. Would it not be of prime value to the naturalists of the museum and to the study of natural sciences in France if all the publications received were regularly, conscientiously and rapidly abstracted carefully listing the titles of all articles in a classified arrangement, and presenting these in such manner that anyone could readily keep track of works from different sources relating to his personal studies?

The library staff is so occupied with library duties that it cannot undertake this task; neither can it be entrusted to untrained copyists who would list works alphabetically without grasping their meaning. It requires a staff of assistants trained in various fields so that the specialized knowledge of one complements that of the others. Let us remember that the works most interesting to the specialists are those which extend the limits of knowledge, and that each branch of knowledge has a terminology of its own, so that the comprehension of European scientific thought requires a familiarity with a score of languages.

It will be evident that we are dreaming of a bibliographic organization somewhat similar to that of America, where libraries, hardly as well provided with books as are our provincial libraries, employ as many as twenty workers with various titles to make the material of books and reviews available. Some may say that by waiting a few months or years the majority of these abstracts will perhaps be found in printed bibliographies. But the real question to be decided is whether we should leave indefinitely to the richer or simply better organized nations the privilege of making known to their investigators material which is published currently throughout the world and whether we should indefinitely content ourselves with a second rate documentation.

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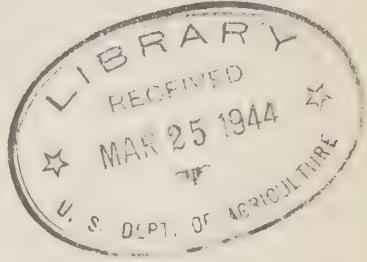
It is unthinkable that libraries of teaching institutions should resign themselves to this situation under the pretext that the role of the teachers is merely the diffusion of results of research already attained; that indeed is an attitude which is permissible only if a person in so doing were sure of never teaching the error of yesterday in place of the truth of today. The organization for which we ask would in all cases and for every reason be placed in a library attached to research laboratories, such as those which, taken together, constitute the Museum of Natural History, and in all establishments which aim to contribute by their own efforts to the progress of science.

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LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING APRIL 1935\*

Alabama

Simple methods for measurement and calculation of field areas. J. B. Wilson and R. S. Duncan. (Ala. Poly. Inst. Ext. Pamphlet 6.) Auburn, 1934.

Arkansas

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California

Insects and other pests attacking agricultural crops. E. O. Essig and W. M. Hoskins. (Calif. Agr. Col. Ext. Circ. 87.) Berkeley, 1934.

Connecticut

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Iowa

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Kentucky

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Tobacco project for 4-H clubs. E. J. Kinney. (Ky. Agr. Col. Ext. Circ. 86, 3d rev.) Lexington, 1935.

List of farm building plans. J. B. Kelley and E. G. Welch. (Ky. Agr. Col. Ext. Circ. 111, 3d rev.) Lexington, 1935.

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The Mexican bean beetle. W. A. Price. (Ky. Agr. Col. Ext. Circ. 257, rev.) Lexington, 1935.

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\* Prepared in Office of Experiment Stations Library.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING APRIL 1935

Kentucky (continued)

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Profitable turkey management. J. H. Martin. (Ky. Agr. Col. Ext. Circ. 275.) Lexington, 1935.

Massachusetts

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Michigan

Fleas, bedbugs and human lice. E. I. McDaniel. (Mich. State Col. Ext. Bul. 144,) East Lansing, 1935.

Minnesota

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Conservation program for 4-H clubs. P. Anderson. (Minn. Univ. Agr. Ext.

Minn. Boys' and Girls' Clubs Bul. no. 19.) University Farm, St. Paul, 1935.

Grow more soybeans in Minnesota. A. C. Arny and R. E. Hodgson. (Minn. Univ. Agr. Ext. Spec. Bul. 134, rev.) University Farm, St. Paul, 1935.

Chopping hay for storage. A. J. Schwantes. (Minn. Univ. Agr. Ext. Agr. Engin. News Letter no. 36.) University Farm, St. Paul, March 15, 1935.

Checking construction of terraces. H. B. Roe. (Minn. Univ. Agr. Ext. Agr. Engin. News Letter 37.) University Farm, St. Paul, April 15, 1935.

Agricultural adjustment and processing taxes. W. C. Waite. (Minn. Univ. Agr. Ext. Minn. Farm Business Notes no. 146, p. 1-3.) University Farm, St. Paul, Feb. 20, 1935.

Mimeographed

Land use problems. O. B. Jesness. (Minn. Univ. Agr. Ext. Minn. Farm Business Notes no. 147, p. 1-3.) University Farm, St. Paul, March 20, 1935.

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Farm earnings and agricultural adjustments in southeastern Minnesota. G. A. Pond and W. P. Farner. (Minn. Univ. Agr. Ext. Minn. Farm Business Notes no. 148, p. 1-3.) University Farm, St. Paul, April 20, 1935.

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Missouri

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Remodeling the square house. J. C. Wooley and F. Clark. (Mo. Agr. Col. Ext. Circ. 320.) Columbia, 1935.

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LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING APRIL 1935

Missouri (continued)

Using limestone on Missouri soils. I. P. Trotter and O. T. Coleman. (Mo. Agr. Col. Ext. Circ. 322.) Columbia, 1935.

Farm work mares and colts. E. A. Trowbridge and T. A. Ewing. (Mo. Agr. Col. Ext. Circ. 323.) Columbia, 1935.

Nebraska

Fitting the farm saws. L. M. Roehl. (Nebr. Agr. Col. Ext. Circ. 745.) Lincoln, 1935.

A reprint of Cornell Ext. Bul. 94.

New Hampshire

Orchard practice. G. F. Potter and others. (N. H. Univ. [Agr.] Ext. Bul. 47.) Durham, 1934.

The home packed lunch. E. E. Ellis. (N. H. Univ. [Agr.] Ext. Circ. 162.) Durham, 1934.

Relief gardens, New Hampshire, 1934. Report by J. C. Kendall. (N. H. Univ. [Agr.] Ext. Circ. 164.) Durham, 1935.

Top-grafting fruit trees. G. F. Potter and others. (N. H. Univ. [Agr.] Ext. Circ. 166.) Durham, 1935.

New York

Varieties of vegetables for 1935. P. Work. (N. Y. Agr. Col. (Cornell) Ext. Bul. 317.) Ithaca, 1935.

Farm radio programs for April, May, June 1935. N. Y. Agr. Col. (Cornell) Ext. [unnumbered] Ithaca, [1935]

North Dakota

Emergency feeding of the work horse. F. W. Christensen. (N. Dak. Agr. Col. Ext. Circ. 128.) State College Station, Fargo, 1935.

Oregon

Walnut and filbert blight and insect pests and their control. P. W. Miller and B. G. Thompson. (Oreg. Agr. Col. Ext. Bul. 476.) Corvallis, 1935.

Preparation of Bordeaux mixture. R. H. Robinson. (Oreg. Agr. Col. Ext. Bul. 477.) Corvallis, 1935.

South Dakota

Dinners that satisfy. S. Z. Wilder. (S. Dak. State Col. Ext. Circ. 349.) Brookings, 1935.

Extension serves South Dakota. (S. Dak. State Col. Spec. Ext. Circ. 42.) Brookings, 1935.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING APRIL 1935  
(Continued)

Texas

Home tanning of leather. M. K. Thornton. (Tex. Agr. Col. Ext. [Bul.] B-86.) College Station, 1935.

Now is the time to repair the house. B. Claytor. (Tex. Agr. Col. Ext. [Circ.] C-102.) College Station, 1935.

Utah

Tree planting on Utah farms. P. M. Dunn. (Utah Agr. Col. Ext. Circ. 68, New Ser.) Logan, 1935.

Virginia

Extension work in agriculture and home economics in 1934. J. R. Hutcheson. (Va. Agr. Col. Ext. Bul. 137.) Blacksburg, 1935.

Washington

Home gardens. J. C. Snyder. (Wash. State Col. Ext. Bul. 202.) Pullman, 1935.

West Virginia

Artistic home crafts. G. Humphreys. (W. Va. Agr. Col. Ext. Good Living Ser. Lesson no. 6, Adventures in Better Living.) Morgantown, [1935?]

Wisconsin

Potato growing in Wisconsin. J. G. Milward and J. W. Brann. (Wis. Agr. Col. Ext. Circ. 273.) Madison, 1935.

Evaporated milk: An outlet for Wisconsin milk. W. P. Mortenson and D. S. Anderson. (Wis. Agr. Col. Ext. Econ. Inform. for Wis. Farmers v. 6, no. 2.) Madison, Feb. 1935.

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QUERY

Information is desired regarding a paper by Dr. William B. Alwood on the artificial pollination of wheat. The paper was read before the Biological Society of Washington on June 2, 1888, and has appeared in print but was not published in the Proceedings of that society. Any one having information in regard to the paper will confer a favor by notifying the Librarian of the U. S. Department of Agriculture.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
of the U. S. Department of Agriculture  
received during April 1935, exclusive of bibliographies\*  
and current issues of serials.\*\*

Office of the Secretary

Common ground. Address of Secretary Henry A. Wallace before the Bowdoin institute of politics, Brunswick, Maine, April 17, 1935. 13 p.

The cotton program carries on. Address of Secretary Henry A. Wallace at Atlanta, Georgia, April 13, 1935. 19 p.

A joint interest. Radio talk by Henry A. Wallace, April 18, 1935. 7 p.

The land utilization program as it affects wildlife. A radio address by Henry A. Wallace to the thirteenth annual convention of the Izaak Walton league of America in Chicago, Ill., broadcast from Washington, D. C., during the National farm and home hour conservation day program, April 12, 1935. 5 p.

The question before the wheat farmer. Address by M. L. Wilson before a State conference of county wheat production control association representatives and Extension workers at University farm, St. Paul, Minn., April 22, 1935. 16 p.

A third economy. An address by Dr. R. G. Tugwell before the Rochester teachers' association, Rochester, N. Y. April 9, 1935. 17 p.

Thomas Jefferson: practical idealist. Address by Henry A. Wallace before the Jeffersonian union, Atlanta, Georgia, April 13, 1935. 21 p.

What sort of cooperative movement do American farmers want? 1935. 5 p.  
Discussion group topic no. 10.

Agricultural Adjustment Administration

Can the farmer produce freely while industry plows up? 1935. 16 p. (Issued by Division of information)

Instructional material related to flue-cured tobacco in terms of the production adjustment program. 1935. 37 p.

The livestock situation; its present and future. Statement by Gerald B. Thorne before 23rd annual feeders day meeting, College of agriculture, Lincoln, Nebraska, April 18, 1935. 10 p.

Suggested guide for conducting wheat discussions. 1935. 2 p.

\*Bibliographies included in general list of bibliographies on page 165.

\*\*For a list of the principal series issued regularly, see v. 9, no. 10, p. 354.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
(Continued)

Bureau of Agricultural Economics

Amendments to the official grain standards of the United States. Promulgated March 28, 1935. Effective July 1, 1935. 16 p.

Average prices received by farmers for farm products: Feb. 15, 1935, with comparisons. 1935. 12 p. (Issued by Crop reporting board)

Brief summary, marketing western New York celery, season 1934-1935. 1935. 4 p. (Issued in cooperation with New York State Department of Agriculture and markets)

Cabbage; a review on marketing western and central New York cabbage for the season 1934-35. 1935. 10 p. (Issued in cooperation with New York State Department of agriculture)

The drought situation. April 1935. 9 p.

Estimates of cash income from farm marketings, monthly, 1924-34. Prepared by C. M. Purves for the Farm income committee. 1935. 13 p.

General review Wisconsin potato season 1934-35. 10 p. (Issued in cooperation with Wisconsin Dept. of agriculture and markets)

Marketing California potatoes; summary of 1934 season. 1935. 17 p. (Issued in cooperation with California Department of agriculture, Market news service)

Marketing Colorado lettuce, cauliflower, green peas and cabbage; summary of 1934 season, by Bryce Morris. 1935. 23 p.

Marketing Michigan apples, 1934-35 season. 1935. 5 p.

Marketing Michigan onions, 1934-35 season. 1935. 7 p. (Issued in cooperation with Michigan Department of agriculture, Bureau of foods and standards)

Marketing western and central New York state lettuce. Summary of the 1934 season, by A. L. Thomas. 1935. 17 p. (Issued in cooperation with the New York State Department of agriculture and markets, Bureau of markets)

Official standards for peas. Effective June 10, 1935. 1935. 6 p. (MFS-1624)

Poultry estimates. Chickens on farms, January 1, 1925-1935. Chickens produced, consumed on farms and sold, 1925-1934. Hens and pullets in farm flocks, 1925-35. Eggs produced, consumed on farms and sold, 1925-34. 1935. 42 p.

Production and carry-over of fruit and vegetable containers for the year 1934. 1935. 9 p. (Issued by Division of fruits and vegetables)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics

(Continued)

A review of the 1935 Arizona spring lettuce season, by A. E. Prugh. 1935.  
8 p. (Issued in cooperation with Arizona fruit and vegetable standardization service)

Summary 1935 celery season. 1935. 4 p. (Issued in cooperation with Florida state marketing bureau)

Summary 1935 strawberry season. By R. Maynard Peterson. 1935. 4 p. (Issued in cooperation with Florida State marketing bureau)

Summary report quality of the 1934 corn crop based on inspected receipts at representative markets Dec. 1, 1934, to March 31, 1935. 1935. 3 p.

Tax delinquency of rural real estate in four Colorado counties, 1928-33. 1935. 13 p.

Tax delinquency of rural real estate in four Utah counties, 1928-33. 1935. 11 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in six Maryland counties, 1928-33. 1935. 12 p.

Tax delinquency of rural real estate in 16 Indiana counties, 1928-33. 1935. 14 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 31 Alabama counties, 1928-33. 1935. 14 p. (Issued by Division of agricultural finance)

Tentative standards for grades of slaughter lambs. 1935. 9 p. (Issued by Livestock, meats and wool division)

Tentative U. S. standards for grades of canned red sour pitted cherries (water pack) 1935. 7 p.

United States grain standards act of Aug. 11, 1916 (39 U. S. statutes at large, p. 482) (U. S. code, title 7, chapter 3, sections 71-87) and regulations of the Secretary of agriculture, promulgated April 2, 1935; effective July 1, 1935. 1935. 30 p. (Issued by Grain division)

U. S. standards for yellow turnips or rutabagas (effective April 15, 1935) 1935. 4 p.

Use of the official cotton standards of the United States (in sales to domestic mills) by J. W. Wright. A preliminary report. 1934. 32 p. (Issued by Division of cotton marketing)

The world cotton outlook, by Hile A. Olson. Address, Annual meeting, Association of Southern agricultural workers, Atlanta, Ga., Jan. 31, 1935. 13 p.

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Bureau of Animal Industry

Committee reports adopted by Conference on cooperative meat investigations held at Chicago, Ill., Aug. 13-15, 1934. 1935. 36 p. (Issued by Animal husbandry division)

Rabies; the prophylactic vaccination of dogs against rabies with the one-injection method. By H. W. Schoening. 1935. 3 p. (Issued by Pathological division)

Stallion enrollment and the horse-breeding situation. By S. R. Speelman. 1935. 25 p. (Issued by Animal husbandry division)

Bureau of Biological Survey

The future of migratory waterfowl. An address by J. N. Darling delivered at the 13th annual convention of the Izaak Walton league of America, in Chicago, April 12, 1935. 7 p.

Instructions for controlling bats. 1935. 1 p. (Wildlife research and management leaflet BS-7) (Issued by Division of game management, Section of predatory animal and rodent control)

Tularemia, an animal borne disease. By W. B. Bell and J. E. Shillinger. 1935. 3 p. (Wildlife research and management leaflet BS-5)

Bureau of Dairy Industry

Points on operation of incubators in Swiss-cheese factories. By R. E. Hardell. 1935. 5 p. (BDIM-660)

Bureau of Entomology and Plant Quarantine

A camera stand for insect photography. By Elmer T. Jones. 1935. 1 p. (ET-42) (Issued by Division of cereal and forage insects)

A device for the automatic spraying of apples in the laboratory. By R. F. Sazama and F. H. Lathrop. 1935. 1 p. (ET-44) (Issued by Division of fruit insect investigations)

An inexpensive and easily built hotbed heating unit. By Elmer T. Jones. 1935. 1 p. (ET-43) (Issued by Division of cereal and forage insects)

Rearling box for small insects. By H. R. Painter. 1935. 1 p. (ET-40) (Issued by Division of cereal and forage insect investigations)

Extension Service

Group discussion and the problems of farm young people. By Eugene Merritt, 1935. 15 p. (Extension service circular 212)

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Forest Service

Suggestions for forestry and tree planting programs for use of four-H club, boy scout, school and arbor day meetings, and other assemblies. 1935. 21 p.

Bureau of Plant Industry

Influence of nitrogen fertilizers on the reaction of Greenville sandy loam soil, by Rulon D. Lewis and Earl D. Fowler. 1935. 5 p. (Issued by Soil fertility investigations)

Soils and fertilizers for pecans in the southeastern United States. By Earl D. Fowler and Rulon D. Lewis. 1935. 16 p. (Issued by Soil fertility investigations)

The tung tree. By H. L. Crane and Robert A. Young. 1935. 6 p. (Issued by Division of fruit and vegetable crops and diseases and Division of plant exploration and introduction) Revision of the mimeograph circular, The Chinese tung-oil tree, by the junior author, issued Jan. 8, 1931.

Turnips and rutabagas. By E. V. Hardenburg. Revised March 1935. 4 p. (Issued by Division of fruit and vegetable crops and diseases)

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LOST BOOKS

The following books cannot be found. It will be appreciated if anyone having information in regard to them will notify the Loan Desk of the main Library (Tel. Branch 527; Room 1044).

Ecological monographs. v. 3, 1923.

Empire forestry journal. v. 12, no. 2. 1933.

Pharmaceutical journal and transactions. ser. 3, v. 12. 1882.

Pycraft, William P. History of birds. 1910.

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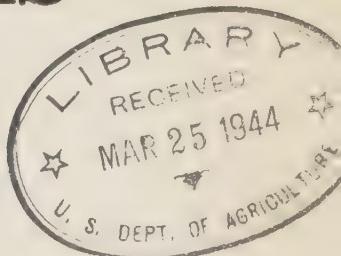
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- Boerger, Alberto. Observaciones sobre agricultura, quince años de  
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XIIth International horticultural congress, 16-21 September 1935, Rome. Executive committee: International Federation of Technical Agriculturists, Via Vittorio Veneto 7, Rome.

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Texas

Intelligent care of fabrics. D. R. Barnes. (Tex. Agr. Col. Ext. [Circ.] C-103.) College Station, 1935.

Vermont

Good gardening in Vermont. Mrs. C. P. Brooks and others. (Vt. Agr. Col. Ext. Circ. 82.) Burlington, 1935.

Herbs-- their culture and use. C. P. Brooks and A. Graham. (Vt. Agr. Col. Ext. Circ. 83.) Burlington, 1935.

Washington

A septic tank for the farm home. (Wash. State Col. Ext. Bul. 200.) Pullman, 1935.

Hotbed construction, electric and manure types. C. L. Vincent and H. L. Garver. (Wash. State Col. Ext. Bul. 203.) Pullman, 1935.

4-H meal preparation club: Breakfast (First year). R. Russell. (Wash. State Col. Ext. 4-H Club Circ. 35.) Pullman, 1935.

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West Virginia

Treating sheep for stomach and intestinal parasites. J. H. Rietz. (W. Va. Agr. Col. Ext. Circ. 308.) Morgantown, 1934.

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Office of the Secretary

Botany and human affairs. Address by A. F. Woods at 25th anniversary of Brooklyn botanical gardens, May 13, 1935. 7 p.

Conservation redefined. Address of Rexford G. Tugwell before the fiftieth anniversary of the founding of New York's forest preserve, Albany, N. Y., May 15, 1935. 10 p.

The issues behind the wheat referendum. Remarks of Henry A. Wallace broadcast during the National farm and home hour, May 23, 1935. 5 p.

The Joseph plan in modern America. Address by Henry A. Wallace, on the Washington Star radio forum, May 16, 1935. 12 p.

Licking the ghost of Alexander Hamilton. Remarks of Henry A. Wallace before a farm meeting at Alexandria, Louisiana, May 11, 1935. 10 p.

National significance of recent trends in farm population. An address by R. G. Tugwell before the Conference on population studies in relation to social planning, May 3, 1935. 12 p.

Where do we go from here; a radio talk by M. L. Wilson broadcast May 9, 1935. 3 p.

Which way America - landward or cityward; a radio discussion among Dr. Rexford G. Tugwell, Dr. L. C. Gray and Milton S. Eisenhower. March 5, 1935. 6 p.

Agricultural Adjustment Administration

Agricultural planning in a democracy. 1935. 9 p. (Discussion statement no. 20)  
Adapted from a speech by Chester C. Davis before Nebraska organized agriculture meeting, Lincoln, Nebraska, Jan. 10, 1935.

Cotton and its problems. An address by Chester C. Davis before the American cotton shippers' association, New Orleans, La., April 26, 1935. 19 p.

Defending democracy. Address of Chester C. Davis before Annual journalism week banquet, School of journalism, University of Missouri, May 3, 1935. 17 p.

The farmers' tariff. Address by Cully A. Cobb over the Dixie network of the Columbia broadcasting system, April 27, 1935. 7 p. (Issued by Cotton Division)

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\*Bibliographies included in general list of bibliographies on page 207-8.

\*\*For a list of the principal series issued regularly, see v. 9, no. 10,  
p. 354.

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Agricultural Adjustment Administration

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Food prices, the consumer and AAA problems. 1935. 11 p. (Discussion statement no. 19) Adapted from a statement issued by the Agricultural adjustment administration April 8, 1935.

Increasing the farmers' share of the national income. By Louis H. Bean. 1935. 8 p.

Instructional material related to Burley tobacco under the production adjustment program. 1935. 25 p.

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Instructions on compliance procedure under the sugar beet production adjustment contract. 1935. 6 p. (Issued by Sugar section)

The issue in the wheat referendum. Address by George E. Farrell at Enid, Oklahoma, April 30, 1935. 14 p. (Issued by Division of grains)

A plea for equality, by Chester C. Davis. April 13, 1935. 14 p.

Statement relative to grain imports July 1, 1934, to March 31, 1935, inclusive. 2 p. (Issued by Division of grains)

Bureau of Agricultural Economics

Average annual prices received by farmers for agricultural commodities 1934, with comparisons. 1935. 27 p. (Issued by Crop reporting board)

Brief review, marketing Louisiana strawberries - 1935 season. 1935. 3 p.

Brief review of the 1935 celery and tomato shipping season. May 15, 1935. 2 p. (Issued in cooperation with Florida State marketing bureau)

Carlot unloads of certain fruits and vegetables in 66 cities, 1934 (calendar year) 1935. 66 p. (Issued by Market news service)

Cost of production of dry beans. Statistical data for 8 states 1914 to 1934. Compiled from official sources by H. W. Hawthorne. 1935. 34 p. (Issued by Division of farm management and costs)

Cotton production in southern Brazil. By P. K. Norris. 1935. 25 p. (Issued by Foreign agricultural service)

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Current economic problems in agriculture. Publications of the Bureau of agricultural economics of interest to grange lecturers. May 1935. 2 p.

The drought situation, May 1935. 1935. 4 p. (Based upon information gathered by the Bureau of agricultural economics and the Weather bureau)

Farm population estimates, January 1, 1935. 1935. 8 p.

Farm production and income from meat animals, 1930, 1931, 1932, 1933, and 1934. 1935. 49 p.

Fruit crops review of 1934 season. Apr. 30, 1935. 37 p.

Important facts about U. S. Grades for beans and federal bean inspection certificates, 1935. (Issued by Hay, feed and seed division)

Interstate shipments of California deciduous tree fruits, season of 1934, by W. F. Cox, T. J. Fitzgerald, B. M. Bayer. Mar. 1935. 77 p. (Issued in cooperation with California dept. of agriculture, Bureau of market news)

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Marketing Imperial Valley cantaloupes; summary of 1934 season, by A. E. Prugh and L. T. Kirby. May 1935. 25 p. (Issued in cooperation with California dept. of agriculture, Market news service)

Marketing Maine potatoes. Preliminary review of the 1934-1935 season. By A. M. McDowell. 1935. 18 p. (Issued in cooperation with Maine department of agriculture. Division of markets)

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Onions; a review on marketing western and central New York onions for the season, 1934-35. 7 p. (Issued in cooperation with New York state department of agriculture and markets)

Quality of cotton linters produced in the United States, season 1933-34. By Victor R. Fuchs. A preliminary report. 1935. 18 p. (Issued by Division of cotton marketing)

Review Idaho potato season 1934-35. 1935. 5 p.

Summary 1935 potato season. Florida. 1935. 2 p. (Issued in cooperation with Florida state marketing bureau)

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Bureau of Agricultural Economics  
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Tax delinquency of rural real estate in 18 South Carolina counties, 1928-33. 1935. 15 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 15 Iowa counties, 1928-33. May 28, 1935. 14 p.

Tax delinquency of rural real estate in 15 Wisconsin counties, 1928-33. 1935. 14 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in four Arizona counties, 1928-33. 1935. 13 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 19 Missouri counties, 1923-33. 1935. 12 p. (Issued by Division of agricultural finance)

United States standards for grades of barrelled or bulk sauerkraut (effective May 2, 1935) 1935. 6 p.

The world cotton situation. Foreign cotton production (Preliminary) 1935. V. P.

Bureau of Agricultural Engineering

The agricultural situation in the irrigation states on April 1, 1935. 24 p. (Issued by Division of irrigation).

An effective portable spray irrigation layout. By F. E. Staebner. 1935. 6 p. (Issued by Division of drainage)

Bureau of Animal Industry

The analytical control of proprietary arsenical dips. By R. M. Chapin. 1935. 5 p. (Issued by Biochemic division)

Bang's disease. By W. E. Cotton. 1935. 6 p.

Bureau of Biological Survey

A year of refuge acquisition for the ducks. Radio talk by J. N. Darling, May 24, 1935. 3 p.

Infectious diseases as a cause of loss in wildlife. By J. E. Shillinger. May 1935. 4 p. (Wildlife research and management leaflet BS-9)

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Bureau of Chemistry and Soils

Developments in farm and rural community fire prevention. Address by D. J. Price, before Firemen's school, Iowa state college, Ames, Iowa, May 23, 1935. 8 p. (Issued by Chemical engineering division)

Dust explosion hazards during fire-fighting operations in grain-handling plants. Address by D. J. Price, at Firemen's school, Iowa state college, Ames, Iowa, May 22, 1935. 10 p. (Issued by Chemical engineering division)

Frozen and dried eggs. Compiled by T. L. Swenson. 1935. 5 p. (Issued by Food research division)

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Bureau of Entomology and Plant Quarantine

The black widow spider. 1935. 4 p. (E-345) (Issued by the Division of insects affecting man and animals)

The control of insects attacking apple and pear. By B. A. Porter. 1935. 7 p. (E-317 (revised)) (Issued by Division of fruit insects)

Insect pest control for the amateur mushroom grower. By A. C. Davis. 1935. 6 p. (E-347) (Issued by Division of truck crop and garden insects)

A method of applying insecticidal dusts quantitatively as a basis for cage tests of insecticides. By J. C. Elmore, Roy E. Campbell, and C. S. Guy. 1935. 3 p. (ET-45) (Issued by Division of truck crop and garden insect investigations)

The prevention of infestations of insects and other pests in commercial mushroom houses. By A. C. Davis. 1935. 7 p. (E-340) (Issued by Division of truck crop and garden insect investigations)

Recommendations for the control of insects attacking certain vegetables, small fruits, and tobacco, and the elimination of harmful insecticidal residues from the market product. 1935. 13 p. (E-343)

Sulphur as an economical control for the cotton flea hopper. By K. P. Ewing and R. L. McGarr. 1935. 6 p. (E-348) (Issued by the Division of cotton insect investigations in cooperation with the Texas Agricultural experiment station)

Extension Service

Abundant living for small towns and rural districts. By C. E. Smith. 1935. 4 p. (Miscellaneous extension publication no. 19) Talk given before National recreation association, Washington, D. C. Oct. 5, 1935. (Issued by Division of cooperative extension)

Motion pictures of the United States department of agriculture. 1935. 38 p. (Issued by Division of motion pictures)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Extension Service  
(Continued)

Objectives and suggested procedure for the AAA farm record project, 1935.  
Prepared by L. M. Vaughan. 1935. 10 p. (Issued by Division of cooperative extension)

Some horticultural extension results in 1934. By C. P. Close. 1935. 9 p.  
(Miscellaneous extension publication 16)

Forest Service

Fourteenth annual report of the Southern forest experiment station, New Orleans, La. Jan. 1, 1934-Dec. 31, 1934. 1935. 43 p.

Grain Futures Administration

Governmental regulation of the commodity exchange. By J. M. Mehl. 1935. 12 p.  
(Address, School of commerce, Northwestern university, Chicago, Ill., April 24, 1935)

Bureau of Plant Industry

Report of committee on state and national experimentation of the American institute of refrigeration. By D. F. Fisher. 1935. 9 p. (Issued by Division of fruit and vegetable crops and diseases)

The sunflower: its culture and uses. By A. F. Sievers. 1935. 5 p. (Issued by Division of drug and related plants)

Why fruit trees fail to bear. By H. P. Gould. Revised 1935. 6 p. (Issued by Division of fruit and vegetable crops and diseases)

Wild morning-glory, bindweed, or creeping jenny. By L. W. Kephart. 1935. 2 p.  
(Issued by Division of forage-crops and diseases)

Soil Conservation Service

Prevention and control of wind erosion of high plains soils in the panhandle area. By H. H. Finnell. 1935. 22 p.

The trial of a soil robber. A mock court procedure suitable for presentation in project area no. 15 of the U. S. Soil erosion service. 1935. 20 p.

Office of the Solicitor

Government regulation of livestock commission rates. An address by Seth Thomas before the National livestock exchange, at Cincinnati, Ohio, May 3, 1935. 16 p.

Weather Bureau

Eleven-month weather sequences. By Charles D. Reed. 1935. 3 p.

## RESEARCH AND THE LIBRARY

The following article on "Research and the Library," by Dr. J. L. Berry, Lecturer in Physiology, and Dr. Wilfred Bonser, Librarian, University of Birmingham, which appeared in Nature for April 27, 1935 (v. 135, no. 3417, pp. 664-665), is included in Agricultural Library Notes because of its special interest to agricultural librarians:

The enormous output of research today which finds its way into scientific and medical periodicals has produced a problem both for the research worker and the librarian. The former finds it impossible to read everything now being published, and the latter finds the cost growing more and more prohibitive quite apart from the amount of shelf room required each year for housing.

The recent campaign conducted in the United States and England against the exorbitant cost of German scientific and medical periodicals has resulted not only in a reduction in prices, but also in a reduction in bulk of the publications themselves. There has long been a well-founded complaint against the unnecessary amount of matter published, for the usual practice was to include in each article not only the original contribution to research but also a lengthy résumé of the whole subject, which was, or at least should have been, already known to readers. The price reduction has been secured by the beneficial excision of this superfluous matter.

From our point of view, further reforms are necessary and we put forward the following as conducive to clarity, economy of cost, bulk, and library storage room.

1. It has long been the practice of chemical journals to accept only new matter, and this cut down to the briefest account. This principle can be adopted with advantage in other scientific subjects. The modern tendency of the young research worker to be judged upon the number of his papers rather than their quality swells the amount of printed matter. Ruthless editing of immature work and refusal of partial results of a research would lead to the increased reputation of the worker which would be acquired by one complete and authoritative paper. Most journals do not make full use of their competent editorial boards, who must co-operate with the contributor and the publisher to attain this desirable objective.

2. Much space is occupied by a long list of references to previous authors, and many of these can be eliminated by a single reference to what we term a "key paper". Where a good paper on the subject with a full historical bibliography has already been published (for example, in Physiological Reviews, or a monograph) this could be quoted in lieu of repetition, papers subsequent to this only being cited. Such "key references", in these days of specialisation within subjects, inflict no hardship upon the interested reader and would avoid the full list of references being given every time.

The "key reference" would reduce the long preamble setting forth the reasons for undertaking the particular line of research, and would yield a concise statement of method and results.

Failing a ready-made "key paper", the complete and authoritative paper previously mentioned would thereupon automatically become the "key paper" on that particular subject.

RESEARCH AND THE LIBRARY  
(continued)

3. Abstracting journals are published mainly in English and in German, and it cannot be claimed that both are essential. Where a full abstracting service is available in one language (for example, in the Ber. ges. Physiol.) this should adequately cover the field and absorb or replace all others. It is no longer a valid excuse that German is not known by English-speaking workers, as a working knowledge of both languages is part of a scientist's equipment.

If a full abstracting service does not exist for a subject, we recommend the excellent system adopted by the Royal Microscopical Society, which publishes, as an appendix to each part of its journal, abstracts from articles appearing in other journals on cognate subjects. If this practice were made a general one, a saving in bulk and binding would accrue. For example, the Physiological Society by printing its abstracts in the Journal of Physiology might (although slightly enlarging the size of the journal) eliminate its second periodical, Physiological Abstracts. If the Society did not adopt this procedure, which we term "telescoping", it might save space by excluding all abstracts from articles in its own Journal of Physiology.

4. "Telescoping" could usefully be employed in removing redundant publications. The American Journal of Physiology could coalesce with the Journal of General Physiology, the gain being the heightened standard of the articles.

Some societies, including the Royal Society of Arts and the Royal Society of Medicine, print papers in extenso in their journals when a résumé would usually be preferable; they also print verbatim the vote of thanks proposed by the chairman (the inclusion of which is tedious and unnecessary), as well as the ensuing debate. Excision of these would reduce the journals in question from unwieldy tomes to volumes of handy size.

The instructions for the reduction of bulk which were issued by the firm of Springer for their periodicals have already been abstracted in NATURE (132:34, July 1, 1933); these might serve as a model in Great Britain and the United States.

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PUBLICATION OF DR. A. C. TRUE'S MANUSCRIPT

It is stated in the Proceedings of the 48th Annual Convention of the Association of Land-Grant Colleges and Universities, which has recently been published, that "the matter of securing publication of Dr. A. C. True's manuscript on the History of the Experiment Station Movement was discussed at the last meeting. Upon motion it was voted that the Office of Experiment Stations be requested to contact with the several executive officers of the agricultural colleges with a view to obtaining funds for the publication of the manuscript."

As this manuscript is an important contribution to the history of agricultural research in the United States and contains much reference material it is hoped that agricultural librarians will interest themselves in helping to obtain funds for its publication. The manuscript is on file in the U. S. Department of Agriculture Library.

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PROGRESS REPORT ON THE BIBLIO-FILM SERVICE

The Biblio-Film Service operating in the Library of the United States Department of Agriculture was inaugurated in November 1934 with the assistance of Dr. Atherton Seidell of the National Institute of Health, and Dr. R. H. Draeger of the Medical Department of the U. S. Navy. Full details as to how it happened to be started are given in an article by Dr. Seidell, entitled "Filmstat copies of scientific publications", which appeared in Science for February 15, 1935, pages 174-176. Brief articles in regard to the service have also appeared in the Journal of Industrial and Engineering Chemistry, News edition, vol. 13, no. 8, April 20, 1935, p. 179, and Camera, vol. 50, no. 5, May 1935, p. 327-328.

The work of looking up the references has been done in the Readers' Division of the Library by Miss Corabel Bien, Assistant Reference Librarian. The photographic work has been in charge of Mr. Charles E. Wright. Since the service has now been in operation for seven months, a brief report of progress may be of interest.

The main objects of the service are (1) to decrease interlibrary loans of books by supplying directly to individuals copies of scientific articles particularly those contained in periodicals, and (2) to extend the use of the resources of the Library to isolated scientific workers without adequate library facilities. The records of the use of the service during the past seven months show that it has been quite successful in fulfilling its purpose for it has unquestionably reduced the number of books to be sent out of town on interlibrary loans, and in addition many firms and individuals are now making use of the Library's resources that had not used it previous to the inauguration of the film service.

In the past seven months film copies have been sent to 42 different land grant colleges and universities and to 7 experiment stations, representing in all 41 different states. In addition, film copies have been sent to 40 other colleges and institutions, to 7 public libraries, to 4 state departments, to 16 scientists connected with government offices, to 35 commercial firms and to 14 private individuals. Outside of the United States, film copies have been sent to one institution in Hawaii, one in Puerto Rico, and one in the Philippine Islands, and to 14 institutions and individuals in foreign countries. Of the institutions and individuals in foreign countries that have made use of the service, 11 were in Canada. The total number of different institutions, firms and individuals using the service has been 182.

In the following table is given the number of pages copied for the period November 15, 1934, to May 1935. From this table it will be seen that there has been a steady increase in the use of the service.

	1934		1935				
	Nov.*	Dec.	Jan.	Feb.	Mar.	Apr.	May
Agr. colleges, expt. stations.	210	334	483	460	540	1406	478
Other colleges, universities, etc.	84	154	78	183	518	403	962
Govt. institutions, individuals	82	46	65	6	168	86	407
State offices					15	17	13
Commercial firms	65	40		88	124	1626	4474
Individuals			994	573	1190	611	145
Insular possessions, institutions, individuals					40	129	11
Foreign institutions, individuals	29	9	23	12	218	337	107
Total	470	583	1643	1322	2813	4615	6597

\*Nov. 15-30

PROGRESS REPORT ON THE BIBLIO-FILM SERVICE  
(continued)

By far the greatest number of requests received for film copies is for periodical articles. For the months of November to April no statistics are available showing the number of requests for periodical articles and the number of requests for books but statistics giving this information have been compiled for May. These show that out of the 351 items requested only eight were books. The majority of the articles were less than 10 pages in length.

With only a few exceptions the use made of film copies has been in lieu of interlibrary loans. In this connection it should perhaps be brought out that film copies make it possible to supply articles from current periodicals whereas the periodicals themselves could not be sent out on interlibrary loans because they are in frequent use in the Department. One institution in Hawaii requested a film copy of a complete volume of a periodical which was out of print and difficult to obtain. This is the only request of this kind which has been received.

It has been somewhat surprising that so many institutions, firms and individuals have wanted to make use of the service in spite of the fact that satisfactory projectors specially designed for the use of film copies of publications are not yet available. A number of those who have requested film copies seemed to be content in the meantime to use dissecting or binocular microscopes. Some have had the articles enlarged by commercial photographers or by their own laboratories. However, the equipment ordinarily available in the laboratories of photographic concerns is not well adapted to making enlarged prints of film copies. One individual who has made use of film copies reported that he used the following method for making enlarged prints:

"I have attempted to enlarge my films and have had very good success with the few I have tried. I merely removed the back from my camera which is an Autographic Kodak Junior Number 1 taking a film 2 1/4 x 3 1/4 having an F 7.7 lense (anastigmat). I mounted a piece of wood on the back with a slot for the film (movie film) - also provided the opening for the light to pass through the film. I then mounted the camera on a box painted dull white inside containing a strong light - thus diffused light passed through the negative. (Direct light should not come from the bulb - merely diffused light). The negative was then focused on a wall (about 3 feet away). Thumb tacks were placed on the wall so that enlarging paper could be placed on the wall. The paper used was a bromide paper which is much more sensitive than paper used for printing negatives. With a photo flood light 8 seconds exposure was required. The "photo stats" thus produced (about 4 x 5 inches) can be easily read and are quite sharp. With the set up in proper working order I believe one could enlarge 100 of these in an evening if one had a helper."

In the beginning it was feared that the prices at which it was tentatively decided to provide the film copies might be too low. The records of cost during the past seven months indicate that the rates specified, namely, ten cents for each article not exceeding ten pages in length, and five cents for each additional ten pages or fraction thereof, of the same article, are sufficient to cover the actual cost of the film, the time of taking the photographs, the chemicals, and the work of developing the films. During this experimental period they have not covered the cost of keeping the records and

PROGRESS REPORT ON THE BIBLIO-FILM SERVICE  
(Continued)

the correspondence but this clerical cost may be materially lessened later after the procedure has been better established. Even the present clerical costs are probably no greater than those connected with the lending of books, such as the cost of charging and discharging and correspondence. In the case of film copies, no follow-up work is required in requesting their return as they become the property of the persons requesting them. Since it is felt that the full purpose of the service can be attained only if the cost of the film copies is kept low, it is hoped to be able to continue the present rates. It was never intended that the cost of looking up the references or getting the books from the shelves should be added to the cost of the film copies as no charge would be made for the service if the person requesting the references visited the Library in person.

On the whole the experience of the past six months seems to indicate that the service can be continued at the present rates, that it meets a real need in the scientific field, and that the use of the service will probably increase, particularly when suitable projectors become available at a reasonable price. In the meantime the simple magnifier which is now available permits direct reading of the printed matter. It costs \$8.00 with handle, standard, and shade for the eye, or \$5.00 for the magnifier alone.

Claribel R. Barnett,  
Librarian.

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SELECTED REFERENCES ON FILM REPRODUCTION

Compiled by

James F. Kinsella

- BARNETT, C. R. Information in regard to the Biblio-Film Service operating in the Library of the U. S. Department of Agriculture, Washington, D. C. Agr. Libr. Notes. 10: 73-74. Feb. 1935.
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- Miniature libraries. New York Times. 82(27,574): sec. 8, p. 5, July 23, 1933.
- Phototechnical problems: Some results obtained at the Huntington library. Libr. Jour. 57: 789-794. Oct. 1, 1932.
- The place of photography in the reproduction and preservation of source material. Libr. Jour. 59: 548-549. July 1934.
- When filing cards take the place of books. Libr. Jour. 58: 911-913. Nov. 15, 1935.
- BINKLEY, R. C. New tools for men of letters. Yale Rev. 24: 519-537. Spring, 1935.
- BJORKBOM, C. Stockholm's new photograph apparatus. Libr. Jour. 58: 316-317. Apr. 1, 1933.
- BROWN, K. Newspapers on films. Libr. Jour. 59: 471. June 1, 1931.
- CARPENTER, F. I. The photographic reproduction of rare books. Bibliog. Soc. Amer. Papers. 25: 35-46. 1921.
- CASE, C. Z. Film files would outlast newsprint. Editor and Publisher 66(24 sec. 2): p. III. Oct. 28, 1933.
- DUBOIS, I. New photographic aid to library research. Libr. Jour. 57: 229-230. Mar. 1, 1932.
- FICKLEN, J. B. Copying manuscripts on motion picture films. Science. 80 210. Aug. 31, 1934.

SELECTED REFERENCES ON FILM REPRODUCTION  
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The government filmslides. (Editorial) Camera. 50: 327-328. May 1935.  
HARTSELL, E. Pictures unite great libraries. News and Observer, Raleigh, N. C. 139(57): 5. Aug. 26, 1934.  
HENRY, E. A. Books on film: their use and care. Libr. Jour. 57: 215-217. Mar. 1, 1932.  
----- Films versus books. Libr. Jour. 58: 237-240. Mar. 15, 1935.  
----- Newspapers on films. (Editorial) Libr. Jour. 59: 468. June 1, 1934.  
JOHNSON, R. P. The use of a 35-millimeter camera in European libraries. Libr. Jour. 60: 293-295. Apr. 1, 1935.  
KIMBERLY, A. E., and SCRIBNER, B. W. Summary report of the Bureau of Standards research on preservation of records. 27p. Washington, Gov't print. off., 1934. (U.S. Dept. Com. Bur. Standards. Misc. Pubs., no. 144)  
KIRHLMAN, A. F. Are we ready to preserve newspapers on films? (A symposium) Libr. Quart. 5: 189-214. Apr. 1935.  
MARTIN, T. P. Films and research (Editorial) Libr. Jour. 59: 702. Sept. 15, 1934.  
Newspapers on film. New York Pub. Libr. Bul. 38: 439-440. June 1934.  
SCHELLENBERG, T. R. Library applications of micro-copying. Libr. Jour. 60: 289-292. Apr. 1, 1935.  
SEIDELL, A. The Berthelot centenary and the resulting international efforts to advance chemistry. Science. 67: 497-499. May 18, 1928.  
----- Film-strip copies of scientific publications. Science 81: 174-176. Feb. 15, 1935. (Reprinted in Agr. Libr. Notes 10: 68-73, Feb. 1935. With "Supplementary remarks to the foregoing article", by Atherton Seidell)  
----- The photomicrographic reproduction of documents. Science 80: 184-185. Aug. 24, 1934.  
----- Reforms in chemical publications (Documentation) Science 80: 70-72. July 20, 1934.  
What part has the film to play? (Editorial concerning speech by H. M. Lydenberg, speaking for the Joint Committee on materials for Research at the A.L.A. Conference, Chicago, 1933) Libr. Jour. 60: 62. Jan. 15, 1935.  
WINTERICH, J. T. Ultimate worm turn. Sat. Rev. Lit. 11: 543. Mar. 9, 1935.

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## WILLIAM PARKER CUTTER

Word has been received of the death of Mr. William Parker Cutter, in Boston on May 22, 1935. Mr. Cutter was librarian of the U. S. Department of Agriculture from September 1893 to December 1900. He was the first librarian of the Department to be appointed under the Civil Service. Immediately after his appointment, he appointed as assistant librarian, Miss Josephine A. Clark, a graduate of Smith College and the New York State Library School, who at the time was serving as botanical bibliographer in the Division of Botany of the Department. Mr. Cutter and Miss Clark together reorganized the Library, introduced modern library methods, built up the staff with trained library assistants, and established the policies under which the Library has since been operating. Under Mr. Cutter's direction the Library began to develop rapidly and to assume an important position among scientific libraries. He was successful in obtaining increased appropriations and in establishing exchange relations with scientific institutions all over the world. He also began the publication of a library bulletin and the issue of a series of bibliographies. In 1898, he initiated the project of issuing printed cards for publications of the Department, the Department being the first institution to make available printed cards for its own publications.

Under his administration, the system of bureau libraries was inaugurated, the first branch library with a trained assistant in charge being established in the Bureau of Animal Industry.

Mr. Cutter resigned on January 1, 1901, to become chief of the Order Division of the Library of Congress. He later held other important library positions. At the time of his death he was librarian of the Bermuda Biological Station. The following tribute to his services to that institution is contained in an article about him by Edwin G. Conklin in Science for June 14, 1935.

In his last years Mr. Cutter's health was frail, and he sought relief from the extremes of the New England climate in the more equable climate of Bermuda, where he was appointed librarian of the new Bermuda Biological Station for Research. His most important service at the Bermuda Station consisted in planning and supervising the conversion of an unused power house, near the main building, in a well-lighted, commodious and fireproof library building and in equipping this and transferring to it the publications from the crowded quarters in the main building. On March 30 last the new library was formally opened by His Excellency, the Governor of Bermuda, in the presence of a distinguished company of scientists, officers and trustees of the station and other invited guests, and on that occasion tribute was paid to Mr. Cutter by the director of the station, Dr. J. F. G. Wheeler, the senior trustee in Bermuda, Honorable F. Goodwin Gosling and by Mr. Paul Vanderbilt, librarian of the Pennsylvania Museum of Art, a former pupil and associate of Mr. Cutter, who called him one of the greatest librarians of the United States. Mr. Cutter was present and took part in the formal opening of the library, and it is a source of gratification to his many friends that he lived to see the consummation of his plans for the new library and to receive the tributes which were paid to him on that occasion."

Mr. Cutter was born in Washington, D. C., on December 19, 1867. He graduated from Cornell University in 1888 and, at the time of his appointment as librarian of the Department, was a chemist at the Utah Agricultural Experiment Station. He had a remarkable aptitude for languages, an extraordinary facility in uncovering sources of information, and was a librarian of deep and varied scholarship. The Library of the Department owes to Mr. Cutter a great debt.

## OBERLY MEMORIAL PRIZE: SIXTH AWARD

The American Library Association, Bulletin vol. 29, no. 6, June, 1933, contains the following report on the award of the Sixth Oberly Memorial Prize, presented by the Chairman of the Oberly Memorial Fund Committee:

"We have the honor of submitting the following report of the sixth award of the Oberly Memorial Prize for the best bibliography in the field of agriculture or the natural sciences submitted to the committee during the biennium, 1933-34.

"The prize has been awarded to L. O. Bercaw, A. M. Hannay, and E. M. Colvin [of the Bureau of Agricultural Economics Library, U. S. Department of Agriculture] for their Bibliography of Land Settlement. An honorable mention has been awarded to M. F. Warner, M. A. Sherman and E. M. Colvin [of the Bureau of Plant Industry Library, U. S. Department of Agriculture] for their Bibliography of Plant Genetics, and to J. I. Otero for his *Café Bibliografía clasificada y parcialmente anotada*.

"The bibliography submitted by Cornelia Notz was considered by the committee as an excellent piece of work but not within the scope of the prize.

"The following bibliographies were submitted in competition for the prize:  
Bercaw, L. O., Hannay, A. M., and Colvin, E. M. Bibliography  
of land settlement.

Hannay, A. M., Coulthard, M., and Crans, L. (Bibliography of) Measures  
taken in foreign countries to relieve agricultural indebtedness.  
Hitz, V. E. Business in agriculture, 1920-33; a partial bib-  
liography.

Jacobs, Katherine. (Bibliography of) Farm mortgages in the  
United States.

Notz, C. The tariff; a bibliography.

Olcott, M. T. Agricultural relief; a selected and annotated  
bibliography.

Olcott, M. T., and Bercaw, L. O. (Bibliography of) State measures  
for the relief of agricultural indebtedness in the United  
States, 1933-1934.

Otero, J. I. *Café bibliografía clasificado y parcialmente anotado*.

Otero, J. I., and Cook, M. T. Partial bibliography of virus  
diseases of plants.

Turner, C. W. Bibliography on the anatomy of the mammary glands  
of domestic and laboratory animals with special reference to  
dairy cattle.

Warner, M. F., Sherman, M. A., and Colvin, E. M. A bibliography  
of plant genetics.

"One copy of each bibliography submitted has been deposited in the  
U. S. Department of Agriculture Library, in Washington, as has been the custom  
in the past. The next award will be made for bibliographies submitted to the  
committee before January 1, 1936."

The present personnel of the Oberly Memorial Fund Committee is as follows:  
Mr. Gilbert H. Doane, Librarian, University of Nebraska, Chairman; Miss Jessie  
M. Allen, Librarian, Bureau of Plant Industry; Mr. William H. Carlson, Librarian,  
University of North Dakota; Miss Cora L. Feldkamp, Librarian, Office of Experi-  
ment Stations; Mr. Willard P. Lewis, Librarian, Pennsylvania State College;  
Mr. Jackson E. Towne, Librarian, Michigan State College.

DUPLICATES OFFERED FOR EXCHANGE

- American association for the advancement of science. Committee of the Botanical club. List of pteridophyta and spermatophyta growing without cultivation in Northeastern North America. New York, 1893-1894.
- Arthur, J. C., Barnes, C. R., and Coulter, J. M. Handbook of plant morphology. New York, Holt, 1904.
- Howard, Albert, and Howard, G. L. C. Wheat in India, its production, varieties and improvement. Calcutta [1909]
- Keeble, Frederick. Fertilizers and food production on arable and grassland. London, 1932.
- McAlpine, D. The smuts of Australia. Melbourne, Victoria, Dept. of Agriculture, [1910]
- Viala, P., and Ravaz, L. American vines. Complete translation of the second edition, by Raymond Dubois and E. H. Twight. San Francisco, 1903.
- Weaver, J.E. Root development in the grassland formation. Washington, Carnegie Institution, 1920.

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LOST BOOKS

The following books cannot be found. It will be appreciated if anyone having information in regard to them will notify the Loan Desk of the main Library (Tel. Branch 527; Room 1044).

- American pharmaceutical association. Proceedings. v. 50. 1902.
- Clements and Shear. Genera of fungi. Ed. 2. copy 7.
- Statutes at Large. v. 43. pt. 1. 1925.
- U. S. Department of Agriculture. Farmers' bulletins. 1126-1150.

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AGRICULTURAL LIBRARY NOTES

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PRINCIPAL LIBRARY ACCESSIONS

Adulterations

KALLET, A. Counterfeit - not your money but what it buys. New York, Vanguard, 1935.

Agricultural colonization

WILKANSKY, Y. Rational planning of agricultural settlement in Palestine, by J. Elazari-Volcani [pseud.] Jerusalem, Keren Hayesod, 1935.

Botany

KEW. ROYAL GARDENS. Hand-list of trees and shrubs (excluding Coniferae) Ed. 4. London, 1934.

STEELE, C. C. An introduction to plant biochemistry. London, Bell, 1934.

Buying

KAUFMANN RESEARCH FOUNDATION. A series of eleven radio talks on science in buying, by H. B. Meller and others. Pittsburgh, 1934.

Chemistry, Drugs

AMERICAN MEDICAL ASSOCIATION. COUNCIL ON PHARMACY AND CHEMISTRY. Useful drugs. Edited by R. A. Natcher and C. Eggleston. Ed. 9. Chicago, 1934.

FRANKLIN, E. C. The nitrogen system of compounds. New York, Reinhold, 1946. (American chemical society. Monograph series, no. 68)

MAYER, W. Der wasserhaushalt des gesunden und kranken menschen. Berlin, Boeniger, 1935. (Monographies aus dem gesamtgebiet der physiologie der pflanzen und der tiere. bd. 33)

RICE, F. O., and RICE, K. K. The aliphatic free radicals. Baltimore, Johns Hopkins, 1935.

Children

WOODS, L. M. Your new baby; how to prepare for it and care for it. New York, McBride, 1935.

City planning

COVINGTON, Ky. CITY PLANNING AND ZONING COMMISSION. Comprehensive plan for Covington, Kentucky and environs. L. Segoe consulting engineer and city planner, Cincinnati, Ohio. [Cincinnati, 1932?]

PRINCIPAL LIBRARY ACCESSIONS  
(Continued)

Concrete

GIESE, H. A practical course in concrete. Chicago, Portland cement association, 1934.

Dairying

BURKE, A. D. Practical dairy tests and fundamentals of dairying. Milwaukee, Olsen, 1935.

Dictionaries

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30 different countries.

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- Control of intestinal worms in poultry. L. P. Doyle. (Purdue Univ. Dept. Agr. Ext. Leaflet 194.) Lafayette, 1935.
- Slipped tendons in chicks. R. E. Roberts. (Purdue Univ. Dept. Agr. Ext. Leaflet 195.) Lafayette, 1935.
- A summer shelter for pullets. C. W. Carrick. (Purdue Univ. Dept. Agr. Ext. Leaflet 196.) Lafayette, 1935.
- Helps for the home garden. (Purdue Univ. Dept. Agr. Ext. [unnumbered] rev.) Lafayette, 1935.

Kansas

- Extension progress. A report of Extension work in agriculture and home economics in Kansas for the years 1932-1933. H. J. C. Umberger. (Kans. State Col. Ext. Bul. 75.) Manhattan, 1934.
- Homemade shower bath, adaptable for every home. W. P. Martin. (Kans. State Col. Ext. Circ. 113.) Manhattan, 1935.
- Farm commodity outlook in Kansas for the spring and summer of 1935. B. W. Wright and V. M. Rucker in cooperation with the Department of agricultural economics. (Kans. State Col. Ext. Circ. 114.) Manhattan, 1935.
- The general business situation. B. W. Wright and others. (Kans. State Col. Ext. Circ. 115.) Manhattan, 1935.

Maine

- Poultry house insulation and ventilation. H. L. Richardson. (Maine Agr. Col. Ext. Bul. 316.) Orono, 1935.

Massachusetts

- False blossom, the most destructive cranberry disease. H. J. Franklin. (Mass. State Col. Ext. Leaflet 154.) Amherst, 1935.
- Compost for the home garden. A. B. Beaumont and A. M. Davis. (Mass. State Col. Ext. Leaflet 155.) Amherst, 1935

Michigan

- Forest cruiser's handbook, Michigan 4-H forest rangers. R. F. Kroodsma. (Mich. State Col. Ext. Club. Bul. 27.) East Lansing, 1935.

Minnesota

- Farm buildings that pay. W. Boss. (Minn. Univ. Agr. Ext. Agr. Engin. New Letter no. 38.) University Farm, St. Paul, 1935.

Mississippi

- Corn production in Mississippi. F. J. Hurst and J. F. O'Kelly. (Miss. State Col. Ext. Leaflet 2.) State College, 1935.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING JUNE 1935

(continued)

Missouri

Developing healthy children- III. (1 to 2 years) E. M. Heyle. (Mo. Agr. Col. Ext. Circ. 324.) Columbia, 1935. Supersedes Circ. 251.

Developing healthy children- IV. (2 to 5 years) E. M. Heyle. (Mo. Agr. Col. Ext. Circ. 325.) Columbia, 1935. Supersedes Circ. 252.

Economic review and outlook for Missouri farmers. Dec. [1934] Columbia.

New Jersey

Control of anthracnose on red raspberries. J. H. Clark. (N. J. Agr. Col. Ext. Bul. 160.) New Brunswick, 1935.

New York

Some results of farm cost accounts in New York. P. J. Findlen. (N. Y. Agr. Col. (Cornell) Ext. Bul. 318.) Ithaca, 1935.

Farm horseshoeing. H. Asmus. (N.Y. Agr. Col. (Cornell) Ext. Bul. 323) Ithaca, 1935.

Ohio

"When" and "how" in haymaking. R. D. Lewis and C. J. Willard. (Ohio Agr. Col. Ext. Bul. 160.) Columbus, 1935.

Oregon

Home cookery club project. Division III: The dinner club. H. Cowgill. (Oreg. Agr. Col. Ext. Club Ser. M-31.) Corvallis, 1934. Supersedes M-20.

South Carolina

Some pros and cons of the cotton processing tax. O. W. Clark. (Clemson Agr. Col., S.C., Ext. Circ. 142.) Clemson, 1935.

Texas

Production credit for farmers and ranchmen. S. A. McMillan. (Tex. Agr. Col. Ext. [Bul.] B-87.) College Station, 1935.

Preparation of fowls for home and market. Z. McInnis. (Tex. Agr. Col. Ext. [Bul.] B-88.) College Station, 1935.

West Virginia

The homemaker at her best. G. Humphreys. (W. Va. Agr. Col. Ext. Adventures in Better Living, Good Living Ser. III, Lesson no. 7.) Morgantown, [1935]

Wisconsin

Strengthening the farmer's position. Annual report of the Extension service, College of agriculture, University of Wisconsin, 1934. R. Amundson. (Wis. Agr. Col. Ext. Circ. 274.) Madison, 1935.

RECENT BIBLIOGRAPHIES AND LISTS PREPARED IN THE  
U. S. DEPARTMENT OF AGRICULTURE

Bureau of Agricultural Economics:

A chronological history of spinning tests in the U. S. Department of Agriculture, 1901-1934. Comp. by Mildred C. Benton. 1935. 12 p. (Issued by Division of cotton marketing branch library) Type-written. May be borrowed for copying.

Flaxseed abstracts and list of references of published reports regarding the uses, oil values, grading, dockage (weed seeds), production and marketing of flaxseed. Comp. by C. Louise Phillips and E. G. Boerner. Rev. 1935. 52 p. (Issued by Grain division) Mimeographed.

Bureau of Entomology and Plant Quarantine:

Bibliography of chloropicrin, 1932-1934. (First supplement to U. S. Department of Agriculture Miscellaneous Publication 176) By R. C. Roark and R. L. Busbey. 1935. 15 p. (Issued by Division of insecticide investigations) Mimeographed

Office of Experiment Stations:

A selected list of references concerning the culture and production of vanilla. Prepared by Cora L. Feldkamp, Librarian. 1935. 6 p. (Issued by Puerto Rico Agricultural experiment station) Mimeographed.

Bureau of Home Economics:

A selected list of references on weight control. 1935. 2 p. Mimeographed.

Library:

Selected references on the history of English agriculture. By Everett E. Edwards, Associate agricultural economist, Division of statistical and historical research, Bureau of agricultural economics. (Bibliographical Contribution No. 24)

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NOTES ON PERIODICALS

American cotton grower. 713 Glenn St., Atlanta, Ga. mo. f<sup>0</sup> il. vol. 1, no. 1, Je. 1935. Subscription 50 cents per year.

Conservation. American forestry association, 1713 K St., N.W., Washington, D. C. il. f<sup>0</sup> vol. 1, no. 1, Je. 1935. 10 cents per copy; 50 cents per year.

Empire production and export. London. Changed to The Empire producer with no. 224, May 1935.

Entomologische mededeelingen van Nederlandsch-Indie. Dr. J. van der Vecht. Schema der Jongweg 3 Buitenzorg (Java) frequency not stated. 8<sup>0</sup> pl. deel 1, no. 1, Mar. 1, 1935.

Horticultural news. Michigan horticultural society. 1664 National Bank Bldg., Detroit, Mich. quar. 4<sup>0</sup> il. vol. 1, no. 1, Oct. 1934. \$1.00 per year.

Mid-south cotton association news. Memphis, Tenn. Changed to Mid-south cotton news with v. 12, no. 7, Feb. 1935.

Westfälischer bauernstand; zeitschrift der Landesbauernschaft Westfalen. Münster. Changed to Landesbauernschaft Westfalen. Wochenblatt, with Jahrg. 1935, folge 5, Feb. 2, 1935.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
of the U. S. Department of Agriculture  
received during June 1935, exclusive of bibliographies\*  
and current issues of serials.\*\*

Office of the Secretary

Commencement address by Dr. R. G. Tugwell at the University of New Mexico,  
Albuquerque, June 10, 1935. 16p.

Confusion, choice, and unified action. Remarks of Henry A. Wallace at  
Harvard University, June 20, 1935. 8 p.

The consumer and the land. Address by Henry A. Wallace before the General  
federation of women's clubs, Detroit, Mich. June 7, 1935. 12 p.

In the third year; address before Gallatin County farm bureau, Bozeman,  
Montana, by M. L. Wilson, June 4, 1935. 18 p.

Agricultural Adjustment Administration

A land use program for the cotton belt. Adapted from an address by H. R.  
Tolley before the Association of southern agricultural workers, Atlanta,  
Georgia, Feb. 1, 1935. 11 p. (Discussion statement no. 17)

Some facts about agricultural exports. Adapted from a statement by Chester  
C. Davis before the Senate committee on agriculture and forestry, Feb. 4,  
1935. 10 p. (Discussion statement no. 18)

World peace and agriculture. Address of Chester C. Davis before the Institute  
of international relations, at Grinnell, Iowa, June 12, 1935. 19 p.

Bureau of Agricultural Economics

Brief review of the 1935 vegetable shipping season. 1935. 3 p. (In cooper-  
ation with Florida state marketing bureau)

Color tables for converting areas of selected disks to terms of hue, brilliance,  
and chroma. Compiled by Dorothy Nickerson. 1935. v. p.

Consumption of American and other growths of cotton in Japan. By Fred Taylor  
and Rodney Whitaker. A preliminary report. 1935. 41 p. (Issued by Foreign  
agricultural service division and Division of cotton marketing)

Development of standards for grades of cottonseed. By G. S. Meloy. 1935. 31 p.  
(Issued by Division of cotton marketing)

Farm taxes in twenty states - 1933 to 1934. 1935. 2 p. (Issued by Division  
of agricultural finance)

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\*Bibliographies included in general list of bibliographies on page 280.

\*\*For a list of the principal series issued regularly, see v. 9, no. 10,  
p. 354.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics  
(Continued)

List of manufacturers of fruit and vegetable hampers and baskets and manufacturers' identification numbers. Rev. to June 1935. Comp. by Gladys Burrows under the direction of L. C. Carey. 1935. 21 p. (Issued by Division of fruits and vegetables)

Marketing Michigan potatoes, 1934-35 season. 1935. 7 p. (In cooperation with Michigan Department of agriculture, Bureau of foods and standards)

Marketing northwestern fresh cherries. A summary of the 1934 season with comparisons. By M. M. Thomas. 1935. 10 p. (Issued by Division of fruits and vegetables)

Marketing potatoes. Kaw valley, Kansas, Orrick district, Missouri, Arkansas, Oklahoma. Summary of 1934 season. 1935. 15 p.

Marketing Texas cabbage; brief review of 1934-35 season. By W. D. Googe. 1935. 15 p. (Issued by Division of fruits and vegetables in cooperation with Texas Department of agriculture)

Marketing Washington lettuce, cauliflower and green peas; summary of 1934 season. By L. S. Fenn, L. B. Gerry. 1935. 22 p.

Milk equivalent of production of manufactured dairy products by states, 1929-1933. 1935. 10 tables. (Issued by Divisions of crop and livestock estimates, Dairy and poultry products, Statistical and historical research)

Preliminary review of the North Carolina strawberry season, 1935. 1935. 3 p. (In cooperation with North Carolina Department of agriculture)

Receipts from the sale of principal farm products by states, including rental and benefit payments, April 1932-1935 and January-April 1932-1935. 1935. 4 p.

A review of marketing western and central New York potatoes; season, 1934-35. 1935. 10 p. (In cooperation with New York State Department of agriculture and markets)

A review on marketing western and central New York carrots, season 1934-35. 1935. 4 p. (In cooperation with New York State Department of agriculture and markets)

Tax delinquency of rural real estate in four Nevada counties, 1928-33. 1935. 13 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 14 North Dakota counties, 1928-33. 1935. 14 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 10 New Mexico counties, 1928-33. 1935. 14 p. (Issued by Division of agricultural finance)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics  
(Continued)

Tax delinquency of rural real estate in nine Wyoming counties, 1928-33. 1935.  
14 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in seven Washington counties, 1928-33.  
1935. 13 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 33 West Virginia counties, 1928-33.  
1935. 13 p. (Issued by Division of agricultural finance)

Tentative United States standards for grades of canned carrots (Effective June  
1, 1935) 1935. 8 p.

United States standards for grades of canned beets (Effective May 21, 1935) 8 p.

U. S. standards for growers' stock strawberries for manufacture. Effective  
June 1, 1935. 4 p.

U. S. standards for washed and sorted strawberries for freezing. Effective  
June 1, 1935. 2 p.

Warehousemen licensed under United States warehouse act as of the close of  
May 31, 1935. 19 p.

Bureau of Biological Survey

Birds aid blueberry and cranberry growers. By Phoebe Knappen. 1935. 4 p.  
(Wildlife research and management leaflet BS-11)

The possibility of secondary poisoning from thallium used in the control of  
rodents. By F. E. Garlough. 1935. 2 p. (Wildlife research and management  
leaflet BS-10) (Issued by Division of game management)

The waterfowl situation: 1934 - 35. 1935. 17 p.

Bureau of Entomology and Plant Quarantine

A breeding cage for parasites. By J. W. Folsom. 1935. 1 p. (ET-56) (Issued  
by Division of cotton insect investigations)

A covered sifter for separating insects from host material. By Heber C.  
Donohoe. 1935. 1 p. (ET-53) (Issued by Division of fruit insects)

A four-compartment dissection dish. By Heber C. Donohoe. 1935. 1 p. (ET-55)  
(Issued by Division of fruit insects)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Entomology and Plant Quarantine  
(Continued)

An improved cyanide killing jar. By W. J. Buckhorn. 1935. 3 p. (ET-57)  
(Issued by Division of forest insect investigations)

Methods and apparatus developed for studying dispersion of mitidulids. By  
Dwight F. Barnes. 1935. 2 p. (ET-51) (Issued by Division of fruit insects)

Parasite-proof screen lids for collecting and rearing jars. By Heber C.  
Donohoe. 1935. 1 p. (ET-54) (Issued by Division of fruit insects)

A review of non-chemical United States patents issued from 1917 to 1933,  
inclusive, relating to insect control. By R. C. Roark. 1935. 4 p. (Issued  
by Division of insecticide investigations)

Segregation cells for insect pupae. By Charles K. Fisher and Heber C. Donohoe.  
1935. 1 p. (ET-52) (Issued by Division of fruit insects)

Extension Service

A study of the functions and activities of the United States Civil service  
commission. By Mildred Ives and Edwin Matzen. 1935. 21 p. (Extension  
service circular 215) (Issued by Division of cooperative extension)

Forest Service

Economic and social importance of a sustained supply of raw material for  
the wood-using industries in the Lake states. By R. D. Garver. 1935. 8 p.  
(Issued by Forest products laboratory)

Permanent rehabilitation through the national forest work program in southern  
Missouri. 1934. unp.

Population stabilization and social relief through a five year work program in  
the national forests of the North Central region. By F. A. Ineson. 1934. 11 p.

Proposed "subsistence homestead" community on the Nicolet national forest at  
Hiles, Wisconsin. By F. A. Ineson. 1934. 15 p.

Selective logging in the loblolly and longleaf pine forests of South Carolina.  
By R. D. Garver and J. B. Cuno. 1935. 13 p. plates. (Issued by Forest products  
laboratory)

"Subsistence homestead" communities and the Huron national forest. By F. A.  
Ineson. 1934. 49 p.

Grain Futures Administration

Relationship between daily price range and net price change, opening to close,  
of the dominant wheat future and the daily volume of trading in wheat futures  
on the Chicago board of trade. By Paul Mehl. 1935. 8 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
(continued)

Bureau of Home Economics

Community canning centers. By Mabel C. Stienbarger and Miriam Birdseye. May 1935. 15 p. [Revised]

Home methods of preserving eggs. 1935. 2 p. (Issued by Food utilization section)

Vitamin content of foods - a digest of available data. By Hazel E. Munsell and Esther Peterson Daniel. 1935. 8 p.

Library

Biblio-film service operating in the Library of the U. S. Department of Agriculture. 1935. 2 p.

Bureau of Plant Industry

Instructions for the planting and care of cooperative shelter belts and wind-breaks on the Central Great Plains. By J. L. Emerson. 1935. 21 p. (Issued by Division of fruit and vegetable crops and diseases)

Results from the cooperative coordinated oat breeding and uniform winter-hardiness of nurseries in the United States, 1925-1934. Comp. by F. A. Coffman, 1935. 74 p. (Issued by Division of cereal crops and diseases)

Soil Conservation Service

Control of wind erosion. A radio interview between Leland Barrows and Morse Salisbury, July 11, 1935, National farm and home hour, NBC. 5 p.

Cost schedule for emergency conservation work camps, 1935. 26 p.

Cost schedule for Soil conservation demonstrational projects, 1935. 26 p.

Detailed soil erosion survey: outline of procedure for making detailed soil erosion surveys on Soil conservation service projects. Rev. June 1, 1935. 24 p.

Special SCS training course for ECW camps prepared by project no. 2, Bethany, Missouri, 1935. 12 p.

Strip cropping. By Lyman Carrier and Walter V. Kell. Rev. May 1935. 7 p.

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## TRANSLATIONS OF SCIENTIFIC PUBLICATIONS

With the increasing number of important scientific publications which are issued in foreign languages, research workers are finding it most difficult to keep informed regarding the literature of their subjects. This is particularly true in the case of publications in the less well known languages such as the Oriental, Slavic and Scandinavian languages. But research workers doing fundamental work can hardly be content to follow simply the literature of their subject which is issued in English. They must also attempt at least to know what is written in other languages. To do this they are now obliged to spend an undue amount of time in the translating of articles on their subjects unless they happen to be unusually proficient in languages. Abstract journals solve the difficulty only in part, as the abstracts must necessarily be brief. They omit many details which specialists need. There is apparently a growing realization of this situation on the part of research workers in agriculture and of the consequent need for making available in English as much as possible of the important work which is being published in other countries. Unfortunately, the "Index Translationum" issued by the International Institute of Intellectual Cooperation of the League of Nations lists very few translations of scientific articles. It is true that many scientific institutions have for a good many years carried translators on their rolls and valuable translations have been made. In the past year or two a number of the large translating projects have been financed from emergency funds. In the Department of Agriculture two large projects of this kind are in progress and similar projects have been carried on, either on a large or small scale, in some of the State institutions. Little attempt has, however, been made to coordinate any of this work or to make any translations available except for the use of the particular person or office that had the translation made. It seems probable that the volume of translations which exist in the files of the Department of Agriculture and in several of the State institutions is very considerable and when one stops to consider the large amount of time involved in the making of these translations, it seems most unfortunate that they should not be more generally available. Through greater cooperation in this work its benefits could be much extended. One of the essentials of this cooperation would seem to be the greater centralization of the files of translations and some medium for announcing the existence of the translations which have been made.

In the Department of Agriculture, the Library has recently undertaken to maintain a special file of translations and is desirous of increasing the collection. In this effort it has had the special cooperation of the Division of Forest Pathology of the Bureau of Plant Industry which has sent the Library copies of more than 300 articles translated in connection with its translating project financed through emergency funds. These translations have been listed currently in Plant Science Literature issued by the Bureau of Plant Industry. An earnest plea is made for the cooperation of other bureaus of the Department in furnishing carbon copies of translations which may be made in their offices in the future. In the case of translations which have been made in the past and are filed in the offices, the Library would be glad if a list of them could be furnished. Of some of the important translations it might be possible to make either typewritten or photographic copies for the Library's collection. It would be most desirable at least to have a complete central list of all the translations which are on file in the Department.

TRANSLATIONS OF SCIENTIFIC PUBLICATIONS  
(continued)

To extend this cooperation in translating projects to the State agricultural colleges and experiment stations would seem to be within the realm of the possible. Librarians of the colleges and stations, if willing to make a search, will probably find that many of the scientists have valuable translations tucked away in their files where they are not available for any one else. To unearth these translations and to prepare a list of them to be kept in their libraries would be a service to their institutions. If they could go one step further and send copies of the list to the Department of Agriculture Library for its central file of translations, all of the cooperating institutions would benefit. Some translations now on file may be in long hand and would need to be copied before they could be made available. When the translation is being typed it would require little additional work to make an additional copy for deposit in the central file in the Department of Agriculture. It is hoped that the colleges and stations may be willing to cooperate in this way in return for the use of translations which may be available in the files of the Department. A further benefit resulting from cooperation in the translating work is that it would tend to prevent duplication of translations. In the organization of its translating file, the Division of Forest Pathology recently found that one article had already been translated independently by several different members of the Division, in each case quite laboriously. Duplication of this kind is a great waste of time for technical men except in so far as they wish to keep up with some particular language in order to be able to use it at any time.

After the translating work of the Department is fully organized it is hoped that it may be possible to issue a current list of translations. In the case of any copies of translations which may be furnished to the Library, it is recommended that the following information be given on the front page of the translation: The title in the foreign language as well as the translated title; the full citation to the publication in which the article appears; the name of the author of the article; the name of the cooperating division supplying the translation; and the name of the translator.

As this translating project is in the initial stage of organization, the Library of the Department of Agriculture would be glad to have suggestions from librarians and scientific workers who may be interested in the undertaking.

Claribel R. Barnett, Librarian.

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LIBRARY CHANGES

As the Chemistry Building at 216 Thirteenth Street, Southwest, is soon to be torn down to make way for the completion of wings 2 and 3 of the South Building, the Library of the Bureau of Chemistry and Soils, which has been located on the second floor of the Chemistry Building, is now being consolidated with the main Library collections. The chemical books will be located on Deck B in the stacks. The current periodicals will be on file in the Periodical Reading Room.

Mrs. Ella P. Little has recently been appointed to take charge of the Region 7 library of the U. S. Forest Service, located in the Victor Building, Washington, D. C.

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## AN EARLY AZTEC HERBAL

The following extracts are taken from a pamphlet by Emily Walcott Emmart, entitled "Concerning the Badianus manuscript, an Aztec herbal, 'Codex Barberini', Latin 241 (Vatican Library)" which was recently published by the Smithsonian Institution (Smithsonian Miscellaneous Collections, vol. 94, no. 2). In his foreword to the pamphlet, Dr. C. G. Abbot, Secretary of the Smithsonian Institution, speaks of it as follows: "The present pamphlet is published to make known the discovery of the Badianus Manuscript in the Vatican Library and to give an idea of the value and interest of this Aztec herbal. It is believed to be the earliest herbal produced on this side of the Atlantic and from this consideration alone it deserves all the notice that it will undoubtedly receive."

"The Badianus manuscript is a sixteenth century Mexican Herbal composed in the year 1552 in the famous College of Santa Cruz at Tlaltecloco, Mexico City. This beautiful manuscript has long been in the possession of the Vatican Library, where its real identity has been obscured by the title 'Codex Barberini, Latin 241'. Except for a few scholars, it was practically unknown until 5 years ago, when, through the generosity of Ambassador Charles G. Dawes, the Smithsonian Institution sent Dr. Charles U. Clark to Europe in search of early Latin American texts. Through the courtesy of the Vatican Library, Dr. Clark was able to obtain photographs of the original manuscript, and it is from these that the present translation has been made. The manuscript is a complete herbal consisting of 63 folios approximately 6 by 8-1/4 inches in size, clearly written in Latin and Aztec..."

"The herbal is the work of two Aztecs who were educated at the College of Santa Cruz. It was first written in Aztec and then, with the exception of the names of the plants, stones, and animals, translated into Latin within the same year. The exact title reads as follows:

A book of Indian Medical Herbs composed by a certain Indian physician of the College of Santa Cruz, who is not theoretically learned, but is taught only by experience. In the year of our Lord Saviour 1552.

"There seems little doubt that the principal author of the manuscript is one Martin de la Cruz, whose name appears in the first line of the dedication; the second author is Juannes Badianus, the translator, whose signature appears in the postscript at the end of the last chapter. Both of these men were natives taught in the first college erected for the Indians, the College of Santa Cruz.

"The Manuscript is fittingly dedicated to Don Francisco de Mendoza, son of Don Antonio de Mendoza, the first viceroy to New Spain..."

"The herbal was written at the request of Don Francisco de Mendoza and was intended as a gift to 'His Holy Caesarian Royal Catholic Majesty' — Charles V. It is evident that Don Francisco, who followed in his famous father's footsteps in fostering the protection and education of the Indians, wished to commend the work of the Indians and to enlist His Majesty's support of the College of Santa Cruz... Whether this beautiful little manuscript ever came into the hands of Charles V is not known, but Mendiesta records the fact that His Majesty contributed to the support of the College..."

AN EARLY AZTEC HERBAL  
(continued)

"Besides the personal interest of Don Francisco in herbs and his desire to foster the education of the Indians, a third and more forceful influence gave impetus to the writing of this herbal; namely the demand on the part of Europeans for herbs and medicaments.

"The expansion of the West had been stimulated by a desire to find a shorter trade route to the spice-producing countries of the East. The tales and accounts of voyages of Columbus (1492-1502), Vespucci (1499-1503), Balboa (1512-13) and Magellan (1519-22) and others had already awakened Europeans to the value of spices and herbs from the New World. With the coming of Cortez and the fall of Tenochitlan in 1521, news of the medical knowledge of the Aztecs drifted back to Europe. In a letter to Charles V concerning the district of Tlaltelolco, the marketplace of Tenochitlan, Cortez mentions especially a street of 'herb sellers where there are all manner of roots and medicinal plants that are found in the land. There are houses as it were of apothecaries where they sell medicines made from these herbs both for drinking and for use as ointments and salves'.

"These letters, accounts of ship captains and explorers, even at this early date carried news to Europe of a knowledge of the use of herbs and medicaments which appeared to rival that of the Old World. This interest is reflected in accounts of later historians and travelers, and in the works of some of the great European herbalists of the sixteenth century..."

"Of all those who taught in the College of Santa Cruz, Friar Bernardino de Sahagun was the most eminent. Of his long life in Mexico (1529-1590), a large part was spent at Tlaltelolco. He was the first of the Europeans to gather together data on native *materia medica*. For the most part this was assembled in books 10 and 11 of his '*Historia General de las Cosas de Nueva Espana*'..."

"As might be expected, the medical writings of Sahagun and text of the Badianus manuscript are closely related in subject matter as well as in the etymology of the Aztec words. However, the former is written in the manner of a notebook while the latter is a completely organized treatise. Also the Badianus manuscript deals with many more plants than the Sahagun. The illustrations are superior to the Sahagun manuscript both in number and in anatomical detail.

"The Badianus manuscript holds the unique position of being the earliest written Aztec herbal as well as being the only one written by the Aztecs themselves. It marks the beginning of herbal literature on this side of the Atlantic. To the list of native Aztec students of the College of Santa Cruz who distinguished themselves in the field of letters, we add the names of Martin de la Cruz and Juanes Badianus. The volume is a lasting tribute to the teachings of Fr. Bernardino de Sahagun and the brothers of the Franciscan order who taught at Tlaltelolco during the first 50 years of its existence."

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## BOOKS AND THE FARMER

By Sir E. John Russell, Director, Rothamsted Experimental Station

[Editorial Note: The following article on "Books and the Farmer" by Sir E. John Russell, is an address which he delivered at the 10th annual conference of the Association of Special Libraries and Information Bureaux in Bristol, England, in 1933. The address has since been published in the Proceedings of the Association and also has been issued as a reprint. It is believed, however, that it has had only a limited distribution in this country. Therefore, on account of its value to agricultural librarians and others interested in agricultural literature, it was decided to ask the author's permission to republish it in Agricultural Library Notes. This permission was graciously granted. The address divides itself quite naturally into three parts, (1) journals, (2) old books, and (3) modern books. As it is impossible to include it in complete form in this issue, it will appear, with only a few omissions, in three instalments, the first in this issue, the second in the August issue, and the third in the September issue of Agricultural Library Notes]

There are two groups of readers coming within my title "farmer" for whom a library should cater: the expert adviser and the actual tiller of the soil. On the whole it is easier, though perhaps more expensive, to cater for the expert than for the farmer. The expert knows what he wants: you can either supply it or you cannot. Expert treatises, however, have so short a life, and editions follow each other so quickly, that only the largest libraries can hope to keep up with them. Fortunately in agriculture some useful series of monographs have been published, and if these are kept up to date they supply the expert with the main outlines and put him in the way of obtaining the details. Two series of monographs should be in every library: the Ministry of Agriculture series, which are the cheapest of all, costing only a few shillings each,\* and the Rothamsted series, dealing with agricultural science, costing rather more. These monographs give general accounts of the various aspects of agriculture and agricultural science and they furnish the expert with the references to books and journals from which the full details can be obtained. In addition certain government publications which are very inexpensive but of great value should be in all libraries that set out to help farmers and agricultural exports:

- (1) The Agricultural Statistics published annually by the Ministries or Boards of Agriculture for England and Wales, Scotland, Northern Ireland and the Irish Free State.
- (2) The Agricultural Output and the Food Supplies of Great Britain, 1929 (Ministry of Agriculture).
- (3) The Agricultural Output of England and Wales, 1925. This is one of the best accounts of English agricultural production that has yet appeared.
- (4) The Economic Series (Orange Reports) of the Ministry of Agriculture.
- (5) The Reports of the Empire Marketing Board: usually each deals with a particular group of commodities.
- (6) The Year Books of the Dominions.

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\*The earlier issues were called Monographs; later ones are called Bulletins.

BOOKS AND THE FARMER  
(continued)

These usually give the expert and the farmer all the information about farm products required for ordinary purposes. It is, however, necessary to warn the reader that he should study the footnotes to the tables and particularly observe the regions for which the statistics hold. There are so many pitfalls. The expression "the United Kingdom" changed its meaning on January 1st, 1922, when Southern Ireland became the Irish Free State and ceased to be included. Statistics before that date and after that date are therefore not directly comparable and some correction is needed. The Ministry of Agriculture and the Empire Marketing Board do not deal with the same region: the reports are perfectly clear, but the readers do not always take notice of the difference. The Ministry of Agriculture statistics refer only to England and Wales except in the summaries where they refer to Great Britain and the whole of Ireland, Irish Free State included. The Empire Marketing Board statistics on the other hand refer to the present United Kingdom including the Isle of Man and the Channel Islands but excluding the Irish Free State. The two sets of figures are therefore not comparable. Particular care is always needed in quoting statistics: personally I get mine checked by friendly helpers at the Ministry of Agriculture or the Agricultural Economics Research Institute, Oxford, and, while one could hardly issue a general recommendation to this effect, readers should always be urged to discover precisely what the figures are intended to express.

It is a commonplace that no book ever gives quite the information one wants: the author always seems most obtusely to miss the one thing we wish to know about. Fortunately this difficulty has been largely overcome so far as the agricultural expert is concerned. Thanks to the strong line taken by the Imperial Agricultural Conference at Westminster in 1927, there are now established in this country eight agricultural bureaux the function of which is to supply information on subjects coming within their purview to any agricultural expert within the Empire. The prescribed channel of communication is through the official correspondent, but in practice a very liberal interpretation is put on this, and information is freely given to any bona fide enquirer. Certainly any enquiry from a librarian would receive full attention. The Bureaux are as follows:

Subject	Name of Bureau	Address
Soils, Fertilisers, and Crop Production.	Imperial Bureau of Soil Science. Director, Sir E.J. Russell.	Rothamsted Experimental Station, Harpenden.
Animal Health and Disease	Imperial Bureau of Animal Health. Director, W. Horner Andrews, D. Sc.	Veterinary Laboratory, New Haw, Weybridge, Surrey.
Animal Nutrition: Relation of Food to Disease	Imperial Bureau of Animal Nutrition. Director, J.B. Orr, D.Sc., F.R.S.	The Reid Library, Rowett Institute, Bucksburn, Aberdeen

BOOKS AND THE FARMER  
(continued)

Plant Breeding, especially Cereals.	Imperial Bureau of Plant Genetics. Director, Sir R.H.Biffen, F.R.S.	School of Agriculture, Cambridge.
Grasses and Forage Crops	Imperial Bureau of Plant Genetics. Director, Prof. Stapledon	Agricultural Buildings, Alexandra Rd., Aberystwyth
Fruit Growing and Transport	Imperial Bureau of Fruit Production. Director, R.G.Hatton,M.A.	East Malling Research Station,Kent.
Breeding of Animals, Genetics.	Imperial Bureau of Animal Genetics Director, F.A.E. Crew, D.Sc.	King's Buildings, Edinburgh University.
Parasites of Animals	Imperial Bureau of Agricultural Parasitology. Director,R.T.Leiper,D.Sc.	Winches Farm, Hatfield Rd., St. Albans.

If the enquiry obviously fits any of these Bureaux it should be sent straight in and it will be answered: if a book or journal has to be consulted by the enquirer the appropriate reference will be given and you will be told where the volume could be borrowed. You need have no hesitation whatever in approaching any of the Bureaux and if you are in doubt as to which is the appropriate one, send the enquiry to the Soil Bureau at Rothamsted and it will be passed on to the proper quarter. I cannot too strongly commend the Bureaux to your notice: they have very efficient methods for collecting and transmitting information on their special subjects.

Fortunately there are now in operation various methods for borrowing books and journals which the library does not possess. The National Central Library and the Science Library, South Kensington, suffice for most ordinary purposes. Many of the special books and journals wanted by the agricultural expert can be borrowed from the library of the Ministry of Agriculture, Whitehall, merely on payment of postage: the procedure is perfectly simple: you write up to the secretary on official library paper and the book comes by return of post. If the Ministry does not possess the volume the Royal Agricultural Society may possess it and be willing to lend it. The borrowing of journals is more difficult than that of books. The World List of Scientific Periodicals shows the library in which (if available at all) it can be found; alternatively the National Central Library (Malet Place, London, W.C.1) or the Science Library may be able to locate it and even arrange for it to be borrowed. Journals, however, are often irreplaceable and therefore not sent out on loan: in that event there is nothing for it but to tell the would-be borrower where to go and furnish him, if necessary, with an introduction. Our position at Rothamsted is that we are prepared to lend through the National Central Library any book that could be replaced if lost but we do not lend journals or books that are now out of print. We are, however, always glad to receive students and enquirers in our library and give them all the help we can in finding their way through the extensive literature of agriculture and agricultural science.

## BOOKS AND THE FARMER

(continued)

This question of Journals is a growing difficulty with which I confess I see no way of dealing. It is far worse than the problem presented by books. Most of us can decline to buy books on the score that if the book is a good one it will go into a second edition and we can buy it then, while if it is bad or indifferent we don't want it anyway. But a journal is different. It is the most dreadful and insidious form of compulsory purchase ever invented. If you are induced to subscribe for one year you feel you must go on: an incomplete or broken set is revolting to all the best feelings of the true librarian; so for years the parts pile up, occupying good shelf space and draining financial resources to pay for the indispensable binding. Before the War the numbers were manageable; since the War they have risen enormously and they still continue to rise. At Rothamsted, though we set up to be only an agricultural library, we have to take over 600 journals and periodicals. But it ill befits me to grumble for I took an active part in starting yet another one last year.

The reason is, of course, the enormous increase in numbers of scientific workers all over the world. At present every one of them feels bound, if he wishes to get on in life, to publish at least one paper a year. Enthusiastic heads of departments feel that they must grind out papers corresponding in number to the size of the department. Most of them, in conformity with university regulations, publish the students' exercises that gained the M.Sc. or Ph.D. degrees. Some publish almost all of their note-books; some do even more. "I don't mind him publishing his note-books" said one scientist of a colleague, "what I do object to is his publishing his entire waste-paper-basket."

But there it is! For the expert and the scientist this is the age of journals: and librarians are in the unfortunate position that a journal once taken must always be taken.

Of course the journals are not much read: they are received and entered up, particular papers are noted for possible future use; one or two may even be read. But they cannot be ignored, and so the Abstract Journal has grown up; a journal which itself publishes no original work but only abstracts of what appears in other journals. Those necessary for the agricultural expert are:

Biological Abstracts (superseding Botanical Abstracts and Abstracts of Bacteriology). (U.S.A.)

British Chemical Abstracts.

Chemical Abstracts. (U.S.A.)

Experiment Station Record. (U.S.A.)

Zentralblatt für Bakteriologie

Biedermann's Zentralblatt für Agrikulturchemie

Proceedings of the International Society of Soil Science.

The abstracts, however, often appear much later than the original paper, and as an early source of information the Agricultural Index published by the H. W. Wilson Company, is useful; it gives the titles of papers of agricultural interest appearing in current scientific journals.

Usually, the abstracts give the expert all the information he wants, but not always, and then he wishes to see the full paper. The reference may be to some journal unobtainable by the methods I have already described: perhaps some obscure journal the title of which is so abbreviated that even the language in which it is written is not recognisable. You need not despair, however; the Agricultural Bureaux may still help you, for they have in addition to their regular supply of journals (which they cannot lend out) a large number of reprints of separate papers which they can lend, and they can often obtain others which they do not possess. By applying to the Bureau you may be able to borrow a reprint of the paper wanted even though the entire journal be unobtainable.

The Bureaux are able to give still further help. Before the War practically all the important papers and reports in science and agriculture were published in English, French, German, and Italian. If you could read these languages you could review most of the progress in agricultural science and practice. But since the War the wave of nationalism which has done so much to complicate trade, industry, and economic activity, has been at least as effective in complicating scientific work. Russia, which formerly produced few--though good--papers on agricultural science, now publishes more voluminously than any other country, and almost invariably in Russian. It is exceedingly difficult to keep the sets of periodicals complete, so numerous are they and so sudden in their appearances and disappearances; as a further complication the numbering is not always consecutive and No. 5 may appear before No. 3. Yet the more important of them at any rate must be available to the expert. If this were all it would simply add one more language to the list. But it is not all. Among the nations set free after the War are some very gifted agriculturists and scientific workers whose investigations cannot be ignored by an agricultural expert concerned with their particular subject. But with the liberation of the nations came also the liberation of their languages, which even the most ruthless oppressors never succeeded in stamping out. The use of their own language is for the people of these new nations a pious exercise which they most passionately and devotedly perform. Scientific workers in these newly liberated nations now publish in their own languages, and not, as before the War, in one of the great international languages. So an agricultural expert in this country, having obtained access to a paper he wants, may have the mortification of finding that it is published in a language which he not only cannot read but may not even be able to identify. The Rothamsted library now receives journals in twenty-four different languages, and still more are threatened. When some of my friends and colleagues in the Ukraine told me they were proposing to publish a new journal of agricultural science in their own language I retorted that we would flatly refuse to read it. Their reply was "We shall do such good work that you will have to read it." Our Armenian colleagues have gone a step further. They not only use their native language for their scientific papers but they have invented a new script in which to write it. The script is certainly attractive to look at; it is not broken up into any recognisable letters but has the easy flow and rounded curves of Persian. I recently sent up an Armenian paper to our translating staff for a summary but it came back

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(continued)

with the comment "We are sorry, but we don't read fret-work." The Poles, the Czechoslovakians, the Hungarians, the Rumanians, the Latvians, the Palestinian Jews are doing admirable work in agricultural science and practice but publishing it in their own language. Some of these languages have never in the past been used for science or indeed for any high intellectual activity: they contained no scientific terms; sometimes not even a word to express so simple a notion as a "percentage." Quite undeterred by this difficulty the scientific workers have proceeded to make up new words to express modern scientific conceptions. I for one do not blame them: during the long years of oppression their language was the chief tie that kept them together; children learnt it from their mothers, sometimes under difficulties and even threats of dire penalty. By a true instinct they knew that so long as they kept their language they had the key which would one day loosen their fetters, and now that they have their liberty they are remaining faithful to the old mother tongue.

"Quand un peuple tombe esclave, tant qu'il tient bien à sa langue,  
c'est comme s'il tenait la clef de sa prison.--(A. Daudet).

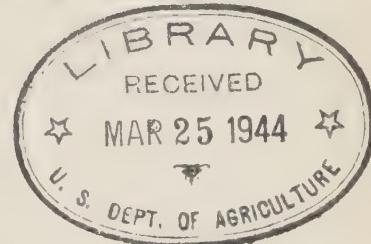
It is quite usual for these workers to add a summary in one of the three common languages, English, French, or German, but this usually whets one's curiosity rather than satisfies it. One obvious solution would be to publish all the papers not only in the native language but in one of the three others: this, however, is overruled at once by the insuperable objection that the cost of printing, already almost unbearable, would be doubled, and the space on the library shelves would be consumed at double the pace; for when it comes to detailed discussions translations are not entirely valid evidence. The Bureaux meet the difficulty for all ordinary cases, as they are prepared to undertake or arrange for translations, and to furnish at very cheap rates photostat copies of tables, diagrams, or if need be the whole paper.

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UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY

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position, held at Buffalo, N.Y., July 3,4,5,6, 1935. 4 p. (Issued by Division of wildlife research)

The present plight of the Jackson Hole elk. By H. P. Sheldon, Olaus J. Marie, and W. E. Crouch. July 1935. 4 p. (Wildlife research and management leaflet, BS-12)

Summary of migratory waterfowl killed during the 1934-35 season under permits to shoot migratory waterfowl on premises where bait or feed was employed. 1935. 1 p.

Bureau of Entomology and Plant Quarantine

Dried fruit fumigation. By Perez Simmons, Dwight F. Barnes, Charles K. Fisher and Heber C. Donohoe and Charles D. Fisher. 1935. 15 p. (E-353)

Mass rearing cages. By E. J. Udine. 1935. 3 p. (ET-58) (Issued by Division of cereal and forage insect investigations)

White-pine blister-rust control. By Lawrence B. Ritter. 1935. 6 p. (Issued in cooperation with Minnesota department of conservation. Division of forestry)

Extension Service

Report of the delegates' conferences, ninth national 4-H club camp, Washington, D. C., June 13-19, 1935. v.p. (Issued by Division of cooperative extension)

Who's who at the national boys' and girls' 4-H club camp. 1935. 36 p.

Food and Drug Administration

Testing dried cut fruits. By B. J. Howard. 1935. 16 p. (Publication no. 4) (Issued by Microanalytical division)

Forest Service

Black locust planting for erosion control. By L. F. Kellogg. Revised May 15, 1935. 6 p. (Central states forest experiment station. Station note no. 3)

Collection of black locust seed. By John G. Kuenzel. Revised May 15, 1935. 2 p. (Central states forest experiment station. Station note no. 1)

The dying of beech in 1934. By Perley Spaulding and J. R. Hansbrough. 1935. 2 p. (Northeastern forest experiment station. Technical note 20)

The effect of forest burning and pasturing in the Ozarks on the water absorption of forest soils. By John T. Auter. 1934. 5 p. (Central states forest experiment station. Station note no. 16)

The effect of woodland grazing on certain site factors in the lake-hickory type. By Oliver D. Diller. 1935. 4 p. (Central states forest experiment station. Station note no. 24)

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Forest Service  
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Forestry facts for young folks. 1935. 22 p.

The influence of degree of cutting on the survival and early growth of chestnut oak seedlings. By John G. Kuenzel. 1935. 3 p. (Central states forest experiment station. Station note no. 23)

Observations on the nursery development of shortleaf pine seedlings. By A. G. Chapman. 1935. 5 p. (Central states forest experiment station. Station note no. 22)

Prevention of damage to round-edged white pine lumber by wood-boring insects.  
By H. J. MacAloney. 1935. 2 p.

The relation of stump height to the sprouting of hop hornbeam in northern Indiana.  
By O. D. Diller. 1935. 3 p. (Central states forest experiment station. Station note no. 25)

Site requirements of black locust. By John T. Auten. Revised May 15, 1935. 4 p.  
(Central states forest experiment station. Station note no. 4)

Suggestions for weeding in northern hardwoods. By Victor S. Jensen. 1935. 6 p.  
(Northeastern forest experiment station. Occasional paper no. 3)

Writing for publications. By S. F. Tillman. 1935. 33 p. (Issued by Intermountain forest and range experiment station)

Grain Futures Administration

Relationship between daily price range and net price change, opening to close, of the dominant corn future and the daily volume of trading in corn futures on the Chicago board of trade. By Paul Mehl. 1935. 8 p.

Bureau of Home Economics

Cooking for twenty-five. By Fanny Walker Yeatman. 1935. 31 p.

Bureau of Plant Industry

Diseases of bearded iris. By Lucia McCulloch. 1935. 4 p. (Issued by Division of fruit and vegetable crops and diseases)

Organizations dealing with the handling and merchandising of horticultural products in the United States and Canada. Compiled by Magdalene R. Newman, Division of Fruit and Vegetable Crops and Diseases. 1935. 13 p.

Suggestions for freezing foods are outlined. By H. C. Diehl, W. T. Pentzer, J. A. Berry and C. E. Asbury. 1935. 30 p. (Issued by Division of fruit and vegetable crops and diseases)

Seed list; a list of forage plant seeds and the incidental seeds commonly found with them. 1935. 32 p. Issued by Division of seed investigations.

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## INTERNATIONAL COLLABORATION OF THE AGRICULTURAL LIBRARIES OF DIFFERENT COUNTRIES\*

By Dr. Sigmund von Frauendorfer  
Librarian of the International Institute of Agriculture

The role of the library as an important factor in agricultural education and as a fundamental aid in scientific research has not always been sufficiently appreciated. Too often we still hold the view that prevailed in the past that libraries are meant exclusively for the preservation of books, and that their use is the privilege of a restricted class of men of science and technicians, and that the general public has nothing to look for in a library. Today this point of view has no longer any reason to exist. The conception of the library as a storehouse for large numbers of books, dead and covered with dust, has been supplanted by another conception, more modern, broader, and more liberal. It is the idea of service that has made a place for itself in the libraries, public and scientific alike. A library that is not used by a maximum number of readers is looked upon as an organization of limited efficiency. A library that does not make every effort to make documentary research easier for its clientèle by means of catalogues and other indexes is not considered a modern institution. Large libraries have learned that it is their duty to engage in bibliographic activity, that is, to provide the key to hidden literary knowledge, by summarizing reviews, examining secondary material (pamphlets, abstracts, theses, etc.), and publishing at regular intervals lists of new books received in the library.

In developing these new activities libraries have necessarily come to realize the necessity of cooperation in order to attain their maximum utility. In almost all countries professional organizations have been established with a national character, and they in turn have been united in an International Federation of Librarians' Associations. However, this vertical grouping of national organizations does not seem to be sufficient to develop a perfect system of cooperation. It seems logical that specialized libraries should seek to establish direct contacts among themselves even beyond the limits of national frontiers.

Let us take for example agricultural libraries. There are certainly in all countries good libraries that specialize in that subject. Often there is a well-stocked agricultural library that functions as a national library in this field. In certain countries (the United States, for example) it is the Library of the Department of Agriculture which plays the part of a national centre. In other countries, as in the Netherlands, it is a school of advanced agricultural studies, an agricultural academy, as in Czechoslovakia, or a private organization. In addition to the central agricultural

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\*Report prepared for presentation to the International Agricultural Press Congress in Brussels. (Translated from La Technique Agricole Internationale 5(1): 65-69. Jan.-Mar. 1935, by A. N. Hannay, Bureau of Agricultural Economics Library, U.S. Department of Agriculture)

INTERNATIONAL COLLABORATION OF THE AGRICULTURAL LIBRARIES  
OF DIFFERENT COUNTRIES  
(Continued)

library there are, in the important countries at least, other agricultural libraries affiliated with different institutions, associations, and other organizations dealing with agriculture. It would seem natural that the agricultural libraries of any one country should be in close contact with each other and that they should have succeeded in establishing a productive system of collaboration. But I fear that that is not the case in all countries. The idea of cooperation among special libraries, even within the limits of a national group, has not been adopted in its entirety in all countries, as would seem logical and natural. Certain countries, I am sure, are still far from recognizing the necessity of having, in addition, to the large general libraries, at least one central library specializing in agriculture. In other countries, on the other hand, in which there are numerous agricultural libraries a national grouping of agricultural libraries took place long ago. In the United States, for instance, an Agricultural Library Section was established in 1911 within the great professional organization of librarians (American Library Association). The productive activity of this section which meets at least once a year is due in large measure to the librarian of the Department of Agriculture in Washington, Miss Claribel R. Barnett. The reports of the discussions of this section, published in the Proceedings of the Conferences of the American Library Association (A.L.A. Bulletin) show very clearly the practical utility of close collaboration of the agricultural libraries. There is even a periodical, Agricultural Library Notes, published in Washington, the aim of which is to intensify the contacts of the American agricultural libraries.

What is possible in one country should be capable of realization in the international sphere also. There are certainly numerous possibilities of cooperation among the agricultural libraries of the different countries. Without going into details a summary of desiderata for interlibrary activity is presented as follows:

Provisional program of activity of an international group of agricultural libraries.

A. - Publications.

1. International list of libraries specializing in agriculture, including research centres and special collections in large general libraries.
2. Complete international list of agricultural periodicals.
3. Index of bibliographical sources in the field of agriculture (Bibliographies in monograph form, current bibliographies, "abstracting journals", and other reviews containing a regular bibliographic section, etc.)

INTERNATIONAL COLLABORATION OF THE AGRICULTURAL LIBRARIES  
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(continued)

4. A manual for the unification of cataloguing and classifying rules, of abbreviations of titles of periodicals, of citations of titles, and other technical library and bibliographical details.
5. A bulletin issued periodically containing information of international interest for agricultural libraries.
6. Periodical publication of an international agricultural bibliography containing not only titles of books but also periodical articles of all countries.

B. - Working tools in the international centre.

1. A union catalogue including not only the books in the central library, but also those in the agricultural libraries of the different countries.
2. A bibliographical index containing titles of articles abstracted from journals and reviews. (Cf. A.6)
3. Agricultural archives containing clippings from the daily press, commercial catalogues, illustrated material (photographs, etc.) and other documentary material, exclusive of books.

C. - Interlibrary Aid.

1. An international library loan system for books not in the libraries of a certain country.
2. Exchange of duplicates (books, pamphlets, and periodicals.)
3. International coordination of agricultural bibliographic activity.
4. A cooperative catalogue.
5. Cooperative selection of books. Lists of the best agricultural publications of the different countries to facilitate selection in foreign libraries.
6. International coordination of agricultural bibliographic activity. (Cf. A.6)

INTERNATIONAL COLLABORATION OF THE AGRICULTURAL LIBRARIES  
OF DIFFERENT COUNTRIES  
(continued)

In this program I refer to an international centre which would function as a sort of clearing house in the domain of agricultural library economy. Agriculture has one advantage, which is not shared by the other sciences, in its possession in the 30-year old International Institute of Agriculture of an international organization of countries well established and very active.

The Institute has an agricultural library of the first importance. It has a total of almost 280,000 books in all languages, and it receives currently more than 3,000 periodicals. This library, which has recently been moved into a new building affording space for future growth, would seem to be the logical body to serve as a centre of international coordination of the agricultural libraries of the different countries.

In order to start as quickly as possible this activity of collaboration which I have briefly summarized, it is proposed to establish an International Committee of Agricultural Librarians at the meeting of the First International Agricultural Press Congress in Brussels on July 26 and 27, 1935. Practical considerations make it desirable that this committee be placed under the auspices of the International Federation of Technical Agriculturists. This committee will also be in contact with the International Federation of Associations of Librarians, so that there will probably be a double affiliation with the international professional organization of librarians and that of technical agriculturists. The participation of librarians and others interested in bibliographical problems in the Congress of Brussels will be of the greatest utility and importance.

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THE INTERNATIONAL MEETING OF AGRICULTURAL LIBRARIANS

At the international meeting of agricultural librarians held in connection with the International Congress of the Agricultural Press, Brussels, Belgium, July 26-27, 1935, the librarians of the United States were represented by Mr. V. A. Schaefer of the University of Michigan Library staff, who is now on temporary detail to the Library of the International Institute of Agriculture, Rome, Italy. Dr. A. G. McCall, Chief of the Division of Soil Investigations, Bureau of Chemistry and Soils, U. S. Department of Agriculture, who represented the Department of Agriculture at the Chemical Congress in Brussels in July, consented to act as delegate from the Library of the Department of Agriculture at the meeting of agricultural librarians.

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## BOOKS AND THE FARMER

By Sir E. John Russell, Director, Rothamsted Experimental Station

(Instalment 2\*)

We turn now to books on agriculture: an immense number from which all but the largest libraries must make a strict selection. A specialised library will, of course, choose its own line, but there is a central core of books that should be possessed by all libraries intended to help the farmer and the agricultural expert.

The basis of the selection should be by countries, and within each country by historical periods; within each period by subjects. The justification for this arrangement is that agriculture is far more intimately associated with the life of the people than any other industry: it dominates the whole of the activities of the countryside and the outlook of all who dwell there. It is impossible to dissociate the great movements in country life from the great changes in agriculture. Moreover the time element plays a determining part in agriculture: the processes are governed by Nature and not by man, and you cannot hurry Nature's pace nor speed up the cycle of the seasons. Seed time, harvest time, lambing time, all these are set by Nature: we can make only minor changes.

As the guide both to the history of farming and to its literature I put first on the list Lord Ernle's British Farming Past and Present: by far the most complete history of the British countryside yet published. Among the shorter histories Mrs. M. E. Soebohm's Evolution of the English Farm (1927) is one of the most readable; being well annotated it is also a good guide for further study. Curtler's Short History of English Agriculture (1909) is another good book for the student.\*\* But you should also try to secure a few of the old books themselves, for they give character and dignity to a library. For students' use good modern editions should be obtained where available.

Agriculture was one of the first arts to be practised but one of the last to be written about: classical writers, excepting only Virgil, were content to extol it without descending to detailed description. But there were some good Roman writers on agriculture and you should secure translations of Varro and especially of Columella, for the Roman practices they describe passed into France and Flanders and thence some of them came to England. Throughout medieval times these *Re Rustica* writers, as they are generally called, were preserved, and they were in great favour when printing first began: the Rothamsted library possesses no fewer than twenty editions between the years 1472 and 1598, and this represents only a fraction of the output. The books were paraphrased at the end of the thirteenth century by Petrus Crescentius, a senator of Bologna; his work was copied in the days of manuscripts and printed in 1471 at Augsburg by Schüssler; the first book on agriculture to be issued from any press. The Rothamsted library possesses a perfect copy, and it is not only the first but, to my mind, one of the most beautiful editions ever printed on agriculture. It was very popular and lived longer than any book since published: our library contains no fewer than twenty-six editions

\*Instalment 1 appeared in the July 1935 issue of Agricultural Library Notes.

\*\*For books on the economics of the countryside the List of Studies in Economic and Political Science of the London School of Economics should be consulted.

BOOKS AND THE FARMER  
(continued)

between 1471 and 1805, many of them folios beautifully executed. Curiously enough no English edition ever appeared, but a three-volume edition was issued at Milan in 1805 and is still sometimes obtainable.

English writers on agriculture seem to have owed but little to the Roman writers or to Crescentius, but they, too, were slow in starting, and it was not till fifty-two years after Caxton set up his press that the first book on agriculture appeared here.\* It was Fitz Herbert's Boke of Husbandry (1523, but the more usual edition is 1534), one of the raciest and most typically English text-books ever written. The Early English Text Society reprinted it some fifty years ago (1882) and this edition should be secured if possible. But the language is somewhat archaic and country readers may not easily follow it.

It was during Elizabeth's reign that agricultural writers first got really busy in England and these authors are quite easy to read, though, in general, they lack both the brilliancy and the dignity characteristic of their time. They could, however, hardly manage to be dull, and even the printers' announcements were impressive. I always like the colophon used by John Wight (1578) in Heresbach's Foure Bookes of Husbandry. "Imprinted at London for John Wight, dwelling in Paules Church-yarde, at the great North doore of Paules." Then came a duller period under the first Stuarts: the Star Chamber imposed restrictions on printing and, till its abolition in 1641, few agricultural books were published excepting only reprints of Gervase Markham - a writer that we find tedious although his great popularity with his contemporaries is shown by the large number of editions through which his books passed, and the well-worn and thumbed condition of the volumes left over to us. Then came the civil wars of 1642 to 1649 when again few agricultural books were written. Immediately afterwards, however, with the more settled form of government the flow started, and it began with two writers, Blith and Hartlib, whose works can still often be found in second-hand bookshops and should be obtained if possible. Blith (*The English Improver*, 1649) was one of the first of the new improvers and Hartlib an enterprising person who published other people's manuscript or letters without revealing their names and so obtained a good deal of credit that was not properly his. If possible you should get his *Discourse of Husbandry* (1650) - a rather scarce little book, or better still and more easily obtainable, his *Legacie of Husbandry* (1651). Both were written by Sir Richard Weston, a royalist refugee in Flanders, who relates how he saw there such crops and such grass, "so good to feed all sorts of Cattel, as the best meadows in the Countrie do not yield the like," which set him reflecting "what an huge improvement I might make of my own Estate if God almighty pleased to permit me quietly to enjoie it": unfortunately for British agriculture this was not to be. Again comes a period which is blank for the general reader, though interesting to the student because enclosure was gradually proceeding and the necessary agricultural changes were being worked out. The scholarly-minded lover of woods and gardens will enjoy John Evelyn's *Silva* (1664) which Arthur Doubleday and Co. recently reprinted in two attractive volumes. If possible you should get a Mortimer; his *Whole Arte of Husbandry* (1707) is one of the classics of agricultural literature, and if you live near the Chilterns get William Ellis, *Chiltern and Vale Farming* (1733).

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\*Curiously enough, Walter of Henley's book, famous in the thirteenth and fourteenth centuries, was not printed till 1890.

BOOKS AND THE FARMER  
(continued)

or The Modern Husbandman (1731); but you should in any case try to obtain Jethro Tull, Horse-hoeing Husbandry (1731) - for choice get Cobbett's edition (1822 or 1829) because of the spicy preface: it gives a good picture of the farming outlook in those early eighteenth century days. The next fifty years produced little of direct agricultural interest: the patron still dominated literary effort and, during most of the eighteenth century, men with a gift for writing did not use their talent for agriculture.

There were, of course, diarists and letter writers, and one of these gives an excellent account of the details of daily life in the country: the Rev. James Woodforde's Diary of a Country Parson, 1758-1781 (Oxford University Press, 1924 onwards). Here are one or two typical entries: "Aug. 17th 1788. Begun shearing my Wheat this morning and gave the shearers according to the Norfolk custom as under: a good breakfast, at 11 o'clock plumb cakes with caraway seeds in them, and some liquor, a good dinner with plumb Puddings and at 4 Beer again... Will brewed this morning a barrel of Ale before he went shearing Wheat at 12 o'clock..."

Listen to this as a cure for ague - then very common in the countryside: "May 22nd 1779. My boy Jack had another touch of the Ague about noon. I gave him a dram of gin at the beginning of the fit and pushed him headlong into one of my Ponds and ordered him to bed immediately and he was better after it and had nothing of the cold fit after, but was very hot." To some farmer friends he gave this dinner: "Nov. 20th 1799. A fine Rump of Beef boiled, 4 fowls boiled and Bacon, a fine neck of Pork roasted, and quantities of plum puddings. Wine, Rum and Beer as much as they would. There was drunk 3 Bottles of Wine, of Rum 5 bottles. Sister Clarke and Nancy dined by themselves in the study."

Agriculture itself, however, made great strides from the middle of the century onwards. The experiments of Townshend and of Coke in Norfolk, and those of the Edinburgh Society in Scotland, provided a stimulus. The king himself was the great patron and before long Arthur Young was able to write: "The farming tribe is now made up of all ranks, from a duke to an apprentice." Once more agricultural writings were slow to appear, but towards the end of the eighteenth century the flood of writing began and has never since ceased. Among the early productions was one of the world's classics: Gilbert White's Natural History of Selborne (1789), of which you should have an attractive, well-illustrated edition so as to induce readers to take it. After this comes the spate. One of the great enterprises of the time was the survey by the Board of Agriculture, then first established, of the agriculture of Great Britain; this was done by counties and you should certainly have the survey of your own and, if possible, of your neighboring counties. There were two editions: the early quartos (1793 and 1794) and the later octavos (1796-1813); on the whole the latter are more suitable and are also more easily obtained. The map, however, should be included: many copies have lost them. In this period comes Arthur Young, one of the greatest figures in agricultural literature, who could observe carefully and set down faithfully what he saw in crisp lucid English which makes even his technical passages easy to read. Even on the shortest of lists of agricultural books he must find a place. Chief among his works are his travels in England and Wales: first in the south (1768), then in the north (1770), and then in the east (1771); afterwards to Ireland and France. All these have been recently reprinted in whole or in

BOOKS AND THE FARMER  
(continued)

part so that copies are easily obtainable: the French tours by G. Bell and Sons, selections from the Irish tours by the Cambridge University Press, and the English tours by the London School of Economics. William Marshall belongs to this period, but is less interesting and would be included in the list only for local reasons, if at all.\*

It is hardly necessary to delay over the nineteenth century agricultural writers: some of them possess considerable technical merit, but they do not come up to the standard of the nineteenth century farming. Agriculture suffers from the difficulty that its writers have usually been poor practitioners. Arthur Young is the outstanding example; he is almost unequalled as an agricultural writer yet he failed when he tried himself to farm. He knew it: "My Mother," he says in his Autobiography, "proposed that I should take a farm. I had no more idea of farming than of physic or divinity... And the circumstance which perhaps of all others in my life I most deeply regretted and considered as a sin of the blackest dye, was the publishing the result of my experience during those four years (1763-1766) which, speaking as a farmer, was nothing but ignorance, folly, presumption, and rascality." (He is here referring to the Farmer's Letters to the People of England, 1767) Two publications cover all that is usually wanted in regard to the nineteenth century: both are mines of valuable and interesting information: Morton's Cyclopedias of Agriculture, and the Journal of the Royal Agricultural Society of England.

(To be concluded in the September issue)

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\*The London School of Economics has published a useful Bibliography of Travellers' Descriptions of England and Wales.



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PRINCIPAL LIBRARY ACCESSIONS

Agricultural Extension

MORGAN, B. A history of the Extension service of Iowa state college. Ames, Ia., Collegiate press, 1934.

Agriculture

KAINS, M. G. Five acres; a practical guide to the selection and management of the small farm. New York, Greenberg, 1935.

NEW JERSEY. DEPT. OF AGRICULTURE. New Jersey, the garden state. Trenton, 1935.

SINDACATO NAZIONALE FASCISTA TECNICI AGRICOLI. Iº Consiglio nazionale e Vº Congresso nazionale, Roma, 1931. Roma, 1932.

Agriculture. Economic aspects

GANGULEE, N. N. The Indian peasant and his environment (The Linlithgow commission and after) London, Oxford university press, 1935.

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HOLDEN, W. C. The Spur ranch; a study of the inclosed ranch phase of the cattle industry in Texas. Boston, Christopher, 1934.

JOHNSON, C. S. Shadow of the plantation. Chicago, Univ. of Chicago press, 1934.

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BAUHIN, K. Catalogus plantarum circa Basileam sponte nascentium. Basileae, typis J. J. Genathii, 1622.

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JORMON, C. Wild flowers of Louisiana. Including most of the herbaceous wild flowers of the Gulf states. Garden City, N. Y., Doubleday, Doran, 1934.

FINK, B. The lichen flora of the United States. Ann Arbor, University of Michigan press, 1935.

GLEASON, H. A. Plants of the vicinity of New York. New York, New York Botanical garden, 1935.

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PHILIPPINE ISLANDS. INSPECCIÓN GENERAL DE MONTES. Catálogo de las plantas del herbario recolectado por el personal de la suprimida Comisión de la flora forestal. Manila, Colegio de Sto. Tomás, 1892.

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Cereal laboratory methods with reference tables. Ed. 3. Omaha, 1935.

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ALUMINUM COMPANY OF AMERICA. Chemical analysis of aluminum. New Kensington, Pa., Aluminum research laboratories, 1935.

GREGG, J. L. Arsenical and argentiferous copper. New York, Chemical catalog co., 1934. (American chemical society. Monograph series, no. 67)

SCHLEICHER, C., & SCHULL CO., New York. Filtrations in chemical laboratories. Ed. 2. New York, 1934.

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SCHMIDT, G. A. Das Kolonial-wirtschaftliche komitee. Berlin, Kolonial-wirtschaftliches kmoitee, 1934.

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BUECHEL, F. A. Consumption of milk and milk products in the city of Austin and Travis county, Texas. Austin, 1934. Mimeographed.

PSYCHOLOGICAL CORPORATION OF NEW YORK. A study of the psychological factors influencing the drinking of plain milk by adults. Made for the Milk research council. [n.p.] 1935.

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VERON, H. A. Diseases of sheep. Sydney, Evans, 1933.

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DAVIS, J. Capitalism and its culture. New York, Farrar & Rinehart, 1935.

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SCHNEIDER, A. Die nationalindustrien Sudamerikas. Hamburg, 1935. (Ibero-amerikanisches institut Hamburg. Institut für Amerikaforschung an der Universität Würzburg. Ibero-amerikanische studien. 2)  
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Minnesota

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Nebraska

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- Boys' and girls' 4-H clubs, 1935. (Nebr. Agr. Col. Ext. Circ. 0-01-2, rev.) Lincoln, 1935.
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- Nebraska summary of home account records from the 1934 books. M. Smith. (Nebr. Agr. Col. Ext. Circ. 11-113.) Lincoln, 1935.  
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Nevada

- Keep growing, Nevada nutrition report, 1934-1935. (Nev. Univ. Agr. Ext. [unnumbered]) Reno [1935]  
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- The home vegetable garden. J. R. Hepler. (N. H. Univ. [Agr.] Ext. Circ. 170.) Durham, 1935.

New York

- Peony growing. A. M. S. Pridham and others. (N. Y. Agr. Col. (Cornell) Ext. Bul. 321.) Ithaca, 1935.
- Homemade ice cream, ices and sherbets. W. E. Ayres. (N. Y. Agr. Col. (Cornell) Ext. Bul. 325.) Ithaca, 1935.
- A moth-proof, gas-tight closet for the storage of clothing and other woolens. G. W. Herrick and others. (N. Y. Agr. Col. (Cornell) Ext. Bul. 327.) Ithaca, 1935.

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North Dakota

Some suggestions on the use of emergency feeds. (N. Dak. Agr. Col. Ext. Circ. 127.) State College Station, Fargo, 1934.

Oklahoma

Trench silos and how to make them. H. W. McPheters. (Okla. Agr. Col. Ext. Circ. 320.) Stillwater, 1935.

Tennessee

Winter cover crops for pasture and soil conservation. Prepared by the Division of animal industry, Feed and forage crops, and the Farm management department (Tenn. Agr. Col. Ext. Pub. 188.) Knoxville, 1935.

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Texas

Killing & dressing poultry. Preparing fowls for home and market. P. A. Cunyus. (Tex. Agr. Col. Ext. [Circ.] C-95 [rev.]) College Station, 1935.

Utah

Four-H club demonstration. Myrtle Davidson and D. P. Murray. (Utah Agr. Col. Ext. New Ser. Circ. 55, rev.) Logan, 1935.

Food sanitation in the home. E. Miller. (Utah Agr. Col. Ext. New Ser. Circ. 71.) Logan, 1935.

Tomatoes, their value and uses. E. Miller. (Utah Agr. Col. Ext. New Ser. Circ. 72.) Logan, 1935.

Clean dishes. E. Miller. (Utah Agr. Col. Ext. New Ser. Circ. 74.) Logan, 1935.

Methods for laundering woolen blankets, wool filled quilts and woolen fabrics. E. Agren. (Utah Agr. Col. Ext. New Ser. Circ. 75.) Logan, 1935

Pressing of wool, silk and rayon fabrics. E. Agren. (Utah Agr. Col. Ext. New Ser. Circ. 76.) Logan, 1935.

4-H boys' and girls' health record and score card. (Utah Agr. Col. Ext. New Ser. Circ. 77.) Logan, 1935.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING AUGUST 1935  
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Wisconsin

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Madison, 1934.
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W. Wisnicky and others. (Wis. Agr. Col. Ext. Circ. 260, rev.) Madison,  
1934.
- The business side of the home demonstration club. (Wis. Agr. Col. Ext.  
Spec. Circ. [unnumbered]) Madison 1934.
- Cabbage in old and new ways. L. Mortenson. (Wis. Agr. Col. Ext. Spec.  
Circ. [unnumbered] [rev.]) Madison, 1934.
- Color. W. M. Hale. (Wis. Agr. Col. Ext. Spec. Circ. [unnumbered])  
Madison, 1934. Home Management Series.
- Color. [Continued]. (Wis. Agr. Col. Ext. Spec. Circ. [unnumbered])  
Madison, 1934.
- The farm garden pays. J. G. Moore. (Wis. Agr. Col. Ext. Spec. Circ.  
[unnumbered]) Madison, 1935.
- The feed situation and what can be done about it. (Wis. Agr. Col. Ext.  
Spec. Circ. [unnumbered]) Madison, 1934.
- Home grown food supply for a farm family. C. E. Clark. (Wis. Agr. Col.  
Ext. Spec. Circ. [unnumbered]) Madison, 1934.
- Let's make a beautiful braided rug. W. M. Hale. (Wis. Agr. Col. Ext. Spec.  
Circ. [unnumbered]) Madison, 1934.  
Home Management Series.
- Meat canning. Home Economics Extension. (Wis. Agr. Col. Ext. Spec. Circ.  
[unnumbered]) Madison, 1934.
- Potatoes, 50 ways for 50 days. A. L. Morlatt. (Wis. Agr. Col. Ext. Spec.  
Circ. [unnumbered] [rev.]) Madison, 1935.
- Rural life for Wisconsin young people. A. Beynton and others. (Wis. Agr.  
Col. Ext. Spec. Circ. [unnumbered]). Madison, 1935.  
Rural Youth and Rural Life Series.  
Summary of the topic "Kind of rural life young people want" at the  
third State Collegiate country life conference, University of Wisconsin,  
May 11, 1935. Mimeographed.
- Seeding alfalfa in 1935. L. F. Graber. (Wis. Agr. Col. Ext. Spec. Circ.  
[unnumbered]) Madison, 1935.
- Supplementary feed crops for 1935. G. M. Briggs. (Wis. Agr. Col. Ext.  
Spec. Circ. [unnumbered]) Madison, 1935.
- Table service and etiquette. G. Stillman. (Wis. Agr. Col. Ext. Spec. Circ.  
[unnumbered] [rev.]) Madison, 1934.  
Nutrition Series.

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Librarians as well as students of animal husbandry will be interested in  
Circular No. 209 of Purdue University Agricultural Experiment Station on  
titled "The Evolution of the Sirein", an address by Prof. C. S. Plumb, as  
it gives a brief and interesting account of the early English books on  
agriculture and animal husbandry. Professor Plumb says that the first  
English book devoted to live stock was "The Government of Cattell" by Le-  
nard Mascall, first published in 1596.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
of the U. S. Department of Agriculture,  
received during August 1935, exclusive of bibliographies\*  
and current issues of serials.\*\*

Office of the Secretary

Address of R. G. Tugwell given at the Tompkins county development meeting,  
Ithaca, New York, Aug. 7, 1935. 8 p.

A personal report of the national forests. By Henry A. Wallace. Aug. 14,  
1935. 5 p.

Statement by Henry A. Wallace on the Commodities exchange bill, now pending  
before the Senate. Aug. 15, 1935. 2 p.

Agricultural Adjustment Administration

Cotton: are we to have a program by and for producers or a program by and for  
processors and handlers? Excerpts from a speech delivered by Mr. C. A. Cobb.  
1935. 13 p. (Current information statement no. 2)

Cotton: facts relating to cotton prices and purchasing power, out-of-pocket cost  
of production, net farm income from cotton and purchasing power of income,  
relation of net income from cotton to national income and other data bearing  
on the cotton farmer's economic position. (Preliminary) 1935. 19 p. (Issued  
by Program planning division, Agricultural-industrial relations section)

Credits and debits of the cotton program. Address by Chester C. Davis at Delta  
Day program, Stoneville, Mississippi, Aug. 13, 1935. 17 p.

Development of all licenses and marketing agreements for each area and commodity.  
1935. 9 p.

In search of new frontiers. By Henry A. Wallace. 1935. 11 p. (Current informa-  
tion series no. 3) Address at the Biennial convention of the National federa-  
tion of business and professional women's clubs, Seattle, Wash., July 18, 1935.

Status of all marketing agreements issued by the Agricultural adjustment admin-  
istration to July 27, 1935. 9 p.

Bureau of Agricultural Economics

Apple exports from Pacific coast ports, season 1934-1935 with comparison. By  
M. M. Thomas. 1935. 12 p.

Average prices received by farmers for farm products: August 15, 1935, with com-  
parisons. 1935. 14 p. (Issued by Crop reporting board)

A brief general review of the Tennessee tomato season of 1935. 2 p. (In coopera-  
tion with Tennessee Dept. of agriculture, Division of markets)

\*Bibliographies included in general list of bibliographies on page 366.

\*\*For a list of the principal series issued regularly, see v. 9, no. 10, p. 354.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics  
(Continued)

Brief review of the 1935 cantaloupe season. 1935. 2 p. (Clemson college extension service, Division of markets, cooperating)

Brief review of the 1935 cucumber season. 1935. 2 p. (In cooperation with Clemson college extension service, Division of markets)

Brief review of the 1935 watermelon season. 1935. 2 p. (In cooperation with Clemson college extension service, Division of markets)

Check list of standards for farm products formulated by the Bureau of agricultural economics. 1935. 7 p. (Issued by Division of economic information)

France as a market for citrus fruit. 1935. 9 p. (FS - C82) (Issued by Foreign agricultural service)

General review, Arizona cantaloupe season of 1935. 6 p. (In cooperation with Arizona fruit and vegetable standardization service)

Income from farm production in the United States, 1934. 1935. v.p.

Influences that affect costs and returns from the tobacco enterprise on Virginia fire-cured tobacco farms. By A. P. Brodell and W. J. Nuckolls, jr. 1935. 33 p. (Issued by Division of farm management and costs, in cooperation with Virginia polytechnic institute extension service)

Marketing California grapes, summary of 1934 season, by A. E. Prugh. 1935. 24 p.

Marketing southeastern watermelons (From Florida, Georgia, Alabama and South Carolina) Summary of 1935 season, by R. Maynard Peterson. 1935. 4 p. (In cooperation with Georgia state bureau of markets and Florida state marketing bureau)

The midsummer beef cattle outlook, 1935. Released July 25, 1935. 10 p.

Preliminary review of the 1935 eastern shore potato season. 1935. 5 p. (In cooperation with the Virginia department of agriculture)

Receipts from the sale of principal farm products, by states, including rental and benefit payments, June 1932-1935 and January-June 1932-1935. 1935. 6 p.

Review of North Carolina peaches, season of 1935. 1935. 3 p. (In cooperation with North Carolina Dept. of agriculture)

Review of North Carolina watermelons, season of 1935. 1935. 2 p. (In cooperation with North Carolina Dept. of agriculture, Division of markets)

Review of the 1935 Imperial valley cantaloupe season. By A. E. Prugh and H. A. Anderson. 1935. 11 p. (In cooperation with California Dept. of agriculture)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics  
(Continued)

Revised estimates of potato acreage, yield per acre, and production, 1866-1929. 1935. 57 p. (Joint project of the Division of crop and livestock estimates and Statistical and historical research)

Revised estimates of tobacco acreage, yield per acre and production, 1866-1929. 1935. 29 p. (Joint project of the Division of crop and livestock estimates and Statistical and historical research)

Revised methods for operating the Brown-Duvel moisture tester, by D. A. Coleman and H. C. Fellows. 1935. 4 p. (Issued as a supplement to U. S. Dept. of agriculture, Dept. bulletin, no. 1375)

Rural zoning. By C. I. Hendrickson. 1935. 38 p. (Issued by Division of land economics)

The summer dairy outlook, 1935. Released July 29, 1935. 8 p.

The summer hog outlook, 1935. Released July 22, 1935. 8 p.

The summer poultry and egg outlook. July 18, 1935. 8 p.

The summer sheep, lambs, and wool outlook. Released August 5, 1935. 10 p.

Tax delinquency of rural real estate in 88 Vermont towns, 1928-32. 1935. 9 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 11 Rhode Island towns, 1928-33. 1935. 10 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 13 Nebraska counties, 1928-33. 1935. 14 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 39 Tennessee counties, 1928-33. 1935. 18 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in seven Michigan counties, 1928-33. 1935. 14 p. (Issued by Division of agricultural finance)

Bureau of Agricultural Engineering

The agricultural situation in the irrigation states July 1, 1935. 15 p. (Issued by the Division of irrigation)

Bureau of Animal Industry

The United States national meat inspection service. By E. C. Joss. 1935. 6 p. (Issued by Meat inspection division)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
(Continued)

Bureau of Biological Survey

The present plight of the Jackson Hole elk. By H. P. Sheldon, Olaus J. Murie and W. E. Crouch. 1935. 4 p. (Wildlife research and management leaflet BS-12) (Issued by Divisions of public relations, wildlife research and game management)

This year's duck-hunting privileges. A radio talk by Howard Zahniser, delivered during the Conservation day program on the National farm and home hour, Aug. 2, 1935. 3 p.

Bureau of Chemistry and Soils

1934-35 annual Naval stores report on production, distribution, consumption, and stocks of turpentine and rosin of the United States by crop years. Issued July 31, 1935. Compiled by F. P. Veitch and J. E. Lockwood. 1935. 8 p. (In cooperation with the Agricultural adjustment administration)

Bureau of Dairy Industry

Control the fly nuisance on the dairy farm. By R. P. Hotis. Revised slightly Aug. 1935. 2 p. (B.I.M.-671) (Issued by Division of market-milk investigations)

Bureau of Entomology and Plant Quarantine

A new curculio jarring sheet. By Oliver I. Snapp and J. R. Thomson. 1935. 2 p.

Plant-quarantine import restrictions of the Republic of Brazil. July 19, 1935. 14 p. (B.E.P.Q.-379) (Supersedes P.Q.C.A.-294)

Extension Service

Agricultural economics in extension. By H. M. Dixon. 1935. 6 p. (Address at annual conference of Arkansas extension workers at University of Arkansas, August 7, 1935)

Foreign agricultural extension activities, Australia, Bulgaria, Canada, China, England, Greece, Malay states, Netherland India, New Zealand, Scotland, South Africa, Tasmania, and Wales. Compiled by Extension studies and teaching, M. C. Wilson, in charge. 1935. 23 p. (Extension service circular 216) (Issued by Division of cooperative extension)

Some things to be considered in deciding whether to farm or not. 1935. 20 p. (Farm young people's discussion topic no. 2)

A survey of professional training offered at Land-grant institutions for prospective agricultural extension workers. By Erwin H. Shinn. 1935. 9 p. (Extension service circular 218) (Issued by Division of cooperative extension)

Trends in home economics. By Grace E. Frysinger. 1935. 8 p. (Extension service circular 219) (Issued by Division of cooperative extension)

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(continued)

Forest Service

Crown spread of Allegheny hardwoods. 1935. 1 p. (Allegheny forest experiment station. Technical note no. 7)

A destructive forest fire and some of its implications. By C. A. Bickford. 1935. 4 p. (Southern forest experiment station. Occasional papers no 46)

The effect of abnormal weather conditions during 1934 on vegetation in the northeast. By H. F. Morey. 1935. 6 p. (Northeastern forest experiment station. Occasional paper no. 4)

Forest truck trail handbook. 1935. p. 100-716.

The forests of Minnesota: areas and types. 1935. 24 numb. 1. (Lake States forest experiment station. Forest survey release no. 1.)

Lumber manufacturing, wood using and allied associations, 1935. 15 p. (Issued by Office of forest products)

Match plank and commercial lumber from western white pine logs. By I. V. Anderson. 1935. 3 p. (Northern Rocky mountain forest and range experiment station. Applied forestry notes no. 72)

Mechanical advances at the Stuart forest nursery. By M. A. Huberman. 1935. 8 p. (Southern forest experiment station. Occasional papers no. 48)

Methods of cutting ponderosa pine, Payette national forest, Idaho. Plots 1, 2, 3. Progress report, 1931. By Edwin L. Mowat. 1935. 42 p. (Issued by Intermountain forest and range experiment station)

Methods of cutting ponderosa pine, Salmon national forest, Idaho. Plot no. 1, Progress report, 1931. By Edwin L. Mowat. 1935. 36 p. (Issued by Intermountain forest and range experiment station)

Notes on the life cycle of the Nantucket tip moth, Phycionia frustrana Comst. in southeastern Louisiana. By Philip C. Wakeley. 1935. 8 p. (Southern forest experiment station. Occasional papers no. 45)

Prospective seed crops of forest trees in the northeast, 1935. By H. F. Morey. 1935. 17 p. (Issued by Northeastern forest experiment station)

Pulping and non-pulping cordwood volume in survey unit no. 1, Texas. By Southern forest survey staff. 1935. 10 p. (Southern forest experiment station. Forest survey release no. 15)

Regressing Montana dry farms. By Leon C. Hurtt. 1935. 4 p. (Northern Rocky Mountain forest and range experiment station. Applied forestry notes no. 69)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Forest Service  
(continued)

Root habits of longleaf pine seedlings. By L.J. Pessin. 1935. 7 p. (Southern forest experiment station. Occasional papers no. 43)

The soil as a guide to stand treatment. By Eugene I. Roe. 1935. 9 p. (Issued by Lake States forest experiment station)

Sulphuric acid treatment for black locust seed. By H. G. Meginnis. 1935. 4 p. (Southern forest experiment station. Occasional papers no. 47)

The supply and status of naval-stores timber in survey unit no. 2, Georgia. By Southern forest survey staff. 1935. 10 p. (Southern forest experiment station. Forest survey release no. 13)

Timber stand improvement in the ponderosa pine type. By T. C. Pender. 1935. 10 p. (Issued by Intermountain forest and range experiment station, Ogden, Utah)

Weeding as a stand improvement measure on cut-over spruce lands. By Marinus Westveld. 1935. 12 p. (Northeastern forest experiment station. Occasional paper no. 5)

Bureau of Home Economics

Buying guides for costume slips. 1935. 6 p.

Bureau of Plant Industry

The coloring or degreening of mature citrus fruits with ethylene. By J. R. Winston and R. W. Tilden. Slightly revised 1935. 13 p. (Issued by Division of fruit and vegetable crops and diseases)

Misbranded seed in interstate commerce and seed analysis. By W. A. Davidson. 1935. 7 p. (Issued by Division of seed investigations)

Photographs of drawings of seeds of the more important forage-plant seeds and incidental seeds commonly found with them. By F. H. Hillman and Helen H. Henry. Revised 1935. 15 plates. (Issued by Division of seed investigations)

Quackgrass. By L. W. Kephart. 1935. 2 p. (Issued by Division of cereal crops and diseases)

Summarized report of investigations on the transcontinental shipment of apples and pears during winter weather. By D. F. Fisher. 1935. 11 p. (Issued by Division of fruit and vegetable crops and diseases)

REPORT OF THE MEETING OF THE ADVISORY COMMISSION FOR THE ESTABLISHMENT OF AN  
INTERNATIONAL COMMITTEE OF AGRICULTURAL LIBRARIANS IN CONNECTION WITH  
The First International Congress of the Agricultural Press  
held at Brussels, July 27, 1935

The Advisory Commission for the establishment of an International Committee of Agricultural Librarians held a meeting immediately after the close of the first plenary session of the International Congress of the Agricultural Press. The meeting took place under the chairmanship of Dr. Edward Reich, Secretary General of the Czechoslovakian Academy of Agriculture. The other members of the Commission were the following: Dr. Ernst Feisst (Switzerland), Dr. Sigmund v. Frauendorfer (International Institute of Agriculture), Prof. Andrea Gravino (Italy), Dr. Per Nebbe (Sweden), Ing. agr. Eladio Morales y Fraile (Spain), Bibliotheksrat Mührer (Germany), Mr. Victor Schaefer (United States).

The members of the Commission approved unanimously the viewpoints and suggestions expressed in the report of Dr. Reich on the "Establishment of agricultural libraries and reading halls" and that of Dr. v. Frauendorfer on "International collaboration of agricultural libraries" which had been presented in the preceding session of the International Congress of the Agricultural Press.

Pursuant to a resolution of this same Congress, the Commission established an "International Committee of Agricultural Librarians". As members of this Committee the following names were proposed:

**President:** Miss Claribel R. Barnett, Librarian, U. S. Department of Agriculture, Washington

**Secretary:** Dr. Sigmund v. Frauendorfer, Librarian, International Institute of Agriculture, Rome

**Members:**

Dr. Jan Mostik, Librarian, Czechoslovakian Academy of Agriculture, Prague, Czechoslovakia

Mr. Charles H. Brown, Librarian, Iowa State College, Ames, Iowa.

Prof. P. J. Gouhoff, Director, Bibliothèque de l'Académie Lénin des Sciences Agricoles, Moscow, U.S.S.R.

Dr. Rudolf Harrer, Librarian, Hochschule für Bodenkultur, Wien, Austria.

Dr. Per Nebbe, Librarian, Landbrukshögskolan, Uppsala, Sweden.

Mr. C. H. Hooper, Librarian, South-Eastern Agricultural College, Wye, Kent, England

Mr. Arne Johnson, Librarian, Norges Landbruks Høiskole, Aas, Norway

Dr. H. N. Kooiman, Librarian, Landbouwhoogeschool, Wageningen, Netherlands.

Dr. S. Lewicky, Librarian, Agricultural College, Pulawy, Poland

Mr. M. Lobedanz, Librarian, Kgl. Veterinaer og Landbohøjskole, København, Denmark

Mr. Fernando G. Luna, Chief, Agricultural Publications, Library of the Department of Agriculture, Madrid, Spain

Prof. Masci, Librarian, Ministry of Agriculture and Forests, Rome

Prof. L. Mila, Manager, Service Bibliographique de la Société des Agriculteurs de France, Paris

Mr. Mührer, Librarian, Landwirtschaftliche Hochschule, Berlin, Germany

Prof. Iv. Stranski, Librarian, Faculté Agronomique, Université de Sofia, Bulgaria

Dr. J. Stummvoll, Librarian, Agricultural College, Ankara, Turkey

The Commission was of the opinion that the preceding list of members should be considered as preliminary and subject to eventual modifications and amplifications as circumstances may require.

REPORT OF THE MEETING OF THE ADVISORY COMMISSION FOR THE ESTABLISHMENT OF AN  
INTERNATIONAL COMMITTEE OF AGRICULTURAL LIBRARIANS  
(continued)

It was furthermore resolved, that the International Committee of Agricultural Librarians should work in contact with the "Fédération Internationale des Techniciens Agricoles" (FITA) and with the "International Federation of Library Associations" in order to establish a double affiliation to the professional organizations of agriculturists and librarians.

The Secretary of the Committee, Dr. Sigmund v. Frauendorfer, has been asked to carry on the current work of the Committee until the next meeting, the date and place of which remain to be fixed.

(Signed) Dr. Sigmund v. Frauendorfer,  
Librarian of the International Institute  
of Agriculture, Rome.

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TENTATIVE PROGRAM FOR THE ACTIVITY OF THE  
INTERNATIONAL COMMITTEE OF AGRICULTURAL LIBRARIANS

Presented to the First International Congress of the Agricultural Press (Brussels, July 26-27, 1935) by Dr. Sigmund v. Frauendorfer, Librarian of the International Institute of Agriculture. (See also: La Technique Agricole International, Revue trimestrielle de la Fédération Internationale des Techniciens Agronomes 5e année, no. 1, p. 65-69, Janvier-Mars 1935)

A. Publications to be Prepared

- (1) International list of libraries and bibliographical centers specialising in agriculture and allied sciences, including special collections in general libraries; (2) an international list of agricultural periodicals; (3) international register of agricultural bibliographies (current bibliographies, abstracting journals, bibliographical monographs, etc.); (4) technical handbooks for use in agricultural libraries (e. g. cataloguing manual, classification scheme, abbreviation of titles of periodicals, etc.) (5) international bibliography of agricultural sciences (books and articles in periodicals); (6) periodical bulletin of information containing matters of interest for agricultural librarians in various countries.

B. Mutual Aid between Agricultural Libraries

- (1) International interlibrary loan of books not to be found in the libraries of a given country; (2) exchange of regular publications; (3) exchange of library duplicates; (4) exchange of library staff members; (5) cooperative book selection, by compilation of national lists of best books in the field of agriculture; (6) cooperation in the field of agricultural bibliography (see A 5).

C. Working Tools of the International Center of Agricultural Bibliography

- (1) Compilation of a union catalog of agricultural books (including those not existing in the library itself); (2) compilation of an international répertoire containing articles of periodicals, pamphlets, reprints and other "minor" material; (3) establishment of an agricultural archive (newspaper clippings, illustrative material, etc.)

## BOOKS BY FARM PEOPLE

By Caroline B. Sherman, Associate Agricultural Economist,  
Bureau of Agricultural Economics

We know that books about farm people are numerous enough to fill a small library, but what of books by farm people?

If we mean books actually written by farm people when actively engaged in farm work, they are naturally rather few in number. For how many of those who make their living on farms have time for the sustained writing that is necessary to the making of a book? Still less do they have the spare energy and freedom to do creative work. But we do sometimes find books written by such people, for instance Evelyn Harris' spirited volume The Barter Lady. Mrs. Harris tells of the schemes she has worked out, while running her Maryland farm, to exchange surplus farm products for services and things which even self-sufficing farm families do find necessary.

Ruth Suckow, though now in Washington, where her husband is helping agriculture through the Triple A, began writing her books while still on her Iowa bee farm. The characters in her Country People were true to the title, though her later books like the recent one called The Folks deal with village people or with the farm family after it has scattered over the country. Our last Pulitzer Prize winner, Now in November, that tragically beautiful story in a Missouri farm setting, was written by Josephine Johnson, a remarkably young writer, from the farm where she has lived most of the time since the age of twelve.

But books written by farm folks after they have left the farm, and find more leisure and perspective, are books by farm people. Margaret Wilson who wrote that earlier Pulitzer Prize winner of Iowa farm life, The Able McLaughlins, grew up as one of a hard-working farm family. They had practically no cash or outside labor. Her uncle was the Honorable James Wilson, you know - the dirt farmer who was Secretary of Agriculture when many of us can first remember.

Willa Cather is the classic fictional writer of the American farm and its influence on those who are born there. Not until her well-wrought books began coming at rather regular biennial intervals in the 1900s did we begin to have a real literature of farm life. She moved from rural Virginia and then lived on a Nebraska ranch from the time she was eight years old to maturity. You remember some of her books - O Pioneers, Song of the Lark, My Antonia, One of Ours. And her new book, just out, Lucy Gayheart, has a village background. Gladys Carroll, whose As the Earth Turns delighted us a year or two ago, and who has now written A Few Foolish Ones, lived her first 12 years on her grandfather's farm in Maine, and she frequently returns to it.

Of a vastly different nature are the books written by Vardis Fisher and constituting the fictionized autobiographical series--In Tragic Life, Passions Spin the Plot, and We are Betrayed - and it is said that another is on its way called No Villain Need Be. Fisher shows the hard and brutalizing phases of pioneer life as it was lived in the Snake River territory of Idaho only 30 years ago and the effect of their impact upon a sensitive and highly strung child and youth. He is writing from a perspective gained by many years of city life but he still goes back to Idaho for the summer months.

BOOKS BY FARM PEOPLE  
(continued)

Then we have those telling books written by people of other walks of life who finally have actual farm experiences. An Abandoned Orchard is Eleanor Risley's vivacious and humorous (but thoroughly in-earnest) story of her day-to-day adventures in bringing back an old orchard in the Ozarks, inherited from an uncle.

We Sagebrush Folks was written by Annie Pike Greenwood both while she and her husband were trying to make a living from their new Idaho ranch and after they had lost it and retreated to Salt Lake City. She tells me she has the makings of six other books waiting for polishing. All apparently relate to her experiences in Idaho.

It is interesting that in a few instances some of our best fiction about farm people has been written by authors who have never lived on a farm. Edna Ferber's journalistic ability to dig quickly and effectively into a subject made possible her So Big and American Beauty - built on the so-different farming of Illinois and old New England. Ellen Glasgow's deep perception, comprehension of character, and real artistry, made possible her rich story, growing out of the rebuilding of a Virginia farm, called Barren Ground. And now her book just coming from the press, Vein of Iron, deals with a stalwart Virginia family of the Shenandoah Valley.

In England we find actual farmers writing in their spare moments and they are usually writing about their farms and the country surrounding them. Adrian Bell, for instance, who found his native London unsatisfactory after his return from the World War and who hungered for a life that would seem really worthwhile turned to farming for those satisfactions. In those delightful books of his, Silver Ley and The Cherry Tree, which were republished in this country, he tells us that at first his family went with him to keep him company and to enjoy country life as the Londoner is likely to think of it, with guests from town and countryside entertaining. But this was not what he really wanted, and it was not until his family wished to return to town, and he was left to live the true life of a farmer in a little century-old cottage, working the traditional hours from dawn till dark that he felt he had completely found the life of outdoor, purposeful toil that he had craved.

Perhaps the author to mention as our last is the one who was probably our first to turn the attention of incredulous American writers and readers to the mere possibility of using farm material successfully in fiction - Hamlin Garland. Through his Main Travelled Roads he first brought farm life into fiction. Later came his series: Trail Makers of the Middle Border, A Son of the Middle Border, A Daughter of the Middle Border, and Back Trailers from the Middle Border. In this series he tells the whole story of his pioneer family. They went out from New England to the Middle West to find freedom and space for adventurous living; lived there a generation or two; and then migrated back to the East where he and his children felt they could better develop the talents that were in them.

Would that there were space to mention many more books by farm people - old and new. For usually there is in these books something that warms the heart and cools the brain - and that can rarely be said of our modern fiction.

BOOKS AND THE FARMER

By Sir E. John Russell, Director, Rothamsted Experimental Station

(Instalment 3\*)

About modern agricultural books it is difficult to speak because the subject has now followed the usual course and become highly specialised. First, and a long way first, I must put A. D. Hall's *Pilgrimage of British Farming*: a vivid picture of the farming of England written by one who, in our day, is unequalled as an observer and as a master of lucid and attractive English. It gives us a faithful account of the agriculture that is now passing away; of the systems and methods in the stage of development they had reached before the War shook them so violently that it caused them all to totter and some to crash; it is a record that will undoubtedly live long after many of our current books are forgotten. Two books are in a category by themselves: both are written by H. Rider Haggard, who, after acquiring immense fame for his books of adventure, turned farmer and wrote down his own experiences in *A Farmer's Year* (1899), and his impressions of British agriculture derived from personal visits in Rural England (1902). These volumes should certainly be obtained. As a reference work the twelve-volume *Cyclopedia of Agriculture* edited by R. Patrick Wright is still the most complete we have, though now nearly thirty years old. Messrs. Bellière, Tindall and Cox more recently published a good *Encyclopedia of Scientific Agriculture* edited by H. Hunter. A connected account of agricultural practice is given by J.A.S. Watson and J.A. Moore\*\* Four good books of reference on the British Islands are: H. J. Mackinder, *Britain and the British Seas* (1930); *Great Britain: Essays in Regional Geography* (1930); Dudley Stamp, *The British Isles: A Geographic and Economic Survey*; and the Agricultural Atlas, Malcolm Messer (Ordnance Survey). Whether you can possess these or not the little County Geographies of the Cambridge University Press should be obtained. Among periodicals the *Journal of the Ministry of Agriculture* should certainly be taken; also the reports and books issued from the Agricultural Economics Institute, Oxford, especially *The Future of Farming*, C. S. Orwin; and the publications of the Bureaux and the Experiment Stations. The Horace Plunkett Foundation issue some valuable reports on Co-operation. Other books worthy of consideration are: Viscount Astor and K.A.H. Murray, *Land and Life*; Lord Lymington, *Horn, Hoof, and Corn* (1932); Montague Fordham, *A Short History of English Rural Life* (1916); and C. Dampier-Whetham, *Politics and the Land* (1927).

For the rest the great difficulty is one of choice; I doubt if at any time in the world's history there were more books published on agriculture than now. The United States is the chief source of supply, and I marvel that they can all find a market; one is inclined to believe, with Pope, that--

"Where so much is said,  
One half will never be believed,  
The other never read."

\*Instalments 1 and 2 appeared in the July and August 1935 issues, respectively, of Agricultural Library Notes.

\*\* Watson and Moore. *Agriculture, The Science and Practice of British Farming*.

BOOKS AND THE FARMER  
(continued)

Most of the American works have, of course, little bearing on English farming, but one of Prof. Warren's more general books on United States agriculture (*The Agricultural Situation*, G. F. Warren and F. A. Pearson Wiley, 1924, or his *Farm Management*), would be an interesting and useful addition to our list.

Considering how much importance now attaches to Empire agriculture as a source of food for the Nation it is unfortunate that we have so few books dealing with it. I have given a general picture of it in my book *The Farm and the Nation*, but no more detailed account has yet appeared. The material can be got out from the official year-books, and something more vivid but less detailed is given in some of the travellers' books; I commend for example R. G. Stapledon, *A Tour in Australia and New Zealand: Grass Land and Other Studies* (1928). Duckham's *Animal Husbandry in the British Empire* (1933) deals with the live-stock side of the industry.

These various books would take a little time to collect, but they would not cost much and they would give the expert, the good farmer and the intelligent general reader a broad view of the subject and, at the same time, sufficient detail for all ordinary purposes.

I should, however, like to see the libraries go much further than this and endeavour to arouse among farmers themselves a taste for good reading. Perhaps this lies outside your province; it is, however, so important that I still feel justified in bringing it before you. There are certain difficulties. Farmers as a body do not belong to either of the present-day leisured classes: they have only little spare time, and that is in the evenings when the long day's work is done. They read the technical agricultural press which is now very good, and thanks to the devoted labours of the County Organisers and the Advisory Officers they are kept informed of modern developments in agricultural science and practice. But their active outdoor life, with the early morning start, is not conducive to serious reading of books in the evenings. In general, too, the farmer has little temptation to buy books. If you look round the bookshop in an ordinary market town you can easily walk out without buying anything. I have asked some of my publishing friends whether they could not make some joint effort to create a greater demand for books among agriculturists and other dwellers in the country, but the difficulties seem to be considerable. In farm-houses one is more likely to find books on agriculture of the period 1820 to 1870 than of 1900 to 1930. In the olden days some of the packmen carried books round and ensured some sort of distribution: now there is nothing of the kind. It is easier to buy a modern book on agriculture in Oxford Street than in a market town where farmers foregather weekly. Except where a school teacher vigorously encourages and stimulates it there is probably less reading of good books in farm-houses now than thirty years ago. In those days the Pilgrim's Progress was still widely read, and, more important still, many farmers began the day's work by the reading of a chapter from the Bible and of a prayer from the Daily Service. Considered simply as a daily exercise in

BOOKS AND THE FARMER  
(continued)

good literature the procedure was good: it laid the foundation for the development of personality and power of shrewd comment that has always characterised the best men and women of the English countryside, whether landowners, farmers, or farm workers. Volumes could be filled with the expressions of the old generation of farm workers: I remember our first tractor once coming to a standstill in the field, and the old workers making scathing comments while the driver looked for the cause of the trouble and found a small insect in the carburettor: "Look!" said one of them, aptly paraphrasing St. Paul, "how the weak things of the world do confound the things which are mighty!" Unfortunately all this is passing: and instead we have the Sunday paper and the "talkie", which again considered simply as exercises in literature, form a poor exchange. There are, however, two new factors at work which may yet do much to bring good books into the farm-house and the farm worker's cottage: the wireless, which has already brought so much pleasure into country life; and the County Library, the branches of which are often worked from the village school. Both teachers and scholars have told me how much the books are appreciated, especially in the remoter places where the winter evenings seem very long. There should be available three classes of books for circulation:

- (1) Good general literature, including fiction, travel, history, biography, science, poetry, and essays (these are not placed in order of merit though it may happen to be the order of general preference).
- (2) Good literature dealing with country life.
- (3) Technical and educational works such as I have already described.

Of the first group I shall say nothing except that a great responsibility lies upon the person making the selection because he or she can foster or kill the taste for reading in many a country household. Country tastes are clean and robust: there is no room for the sickly, morbid, or prurient, and no appreciation of the oversubtle: but English literature happily contains vast stores of clean, healthy, vigorous writing that will stir the imagination and quicken new interests, so adding greatly to the richness of country life. But of the second group I must say something.

Literature dealing with country life ought, on the face of it, to be very popular among country readers. People are more interested in human beings than in anything else and the English countryside is perhaps unique in its wealth of good and almost unexplored material. The story of how the countryside was hewn out from the primeval forests, how the waters were confined and the pestilential swamps converted into rich farm land has the makings of an enthralling tale, but so far it has hardly been told as it deserves. The farm itself is rich in good material, yet only once has it been the subject of great literature and

BOOKS AND THE FARMER  
(continued)

that was long before our time. Virgil's Georgics stand alone as the undying epic of the farm. The countryman can still read it with pleasure and marvel at the depth of understanding, the richness of language and the wealth of imagery that have caused this book to live through the ages and to be passed down lovingly from one generation to another as something to be prized and handed on: the possession not of one age but of all. It is available to all readers now, set out in stately, glowing English by Mackail.

But if there was only one Virgil, there have been many others nearer to or in our own time, writing faithfully, sometimes even caressingly of the things of which we know; who, seeing beyond the surface of things to the motive power behind, and reading the thoughts of men whose words are few, show us something that we had missed. No two people would make up the same short list, but there are a few names that can hardly be left out. First in order of time comes Tusser, the pre-Elizabethan poet or rhymester (whichever you prefer), who from Eton and Cambridge took to farming and failed, but left us some rhymes which for their rugged sanity have lived through this last 400 years, and two fine editions issued within the last three years show that they are still good for a long life yet. His Five Hundred Points of Good Husbandry should be on the shortest list.

Somewhat later comes an account by an adventurous spirit, Celia Fiennes, of a journey round England made on horseback in 1697 in which she describes the things she saw and the people she met. She went from her home in Wiltshire up to the border and even ventured into Scotland. But there she could not remain: "They live in so nasty a way, I rather chose to stay and see my horses eat their provender in the stable than to sit in ye roome for I could not bring myself to sit down nor to Eate any of the food they should order"; then back to London and then to Cornwall. The manuscript was first published in 1888. Another early account is Daniel Defoe's Tour of England in 1724, a delightful book full of touches of humour. Several modern editions are available, ranging in price from the two volumes in Everyman's Library to Peter Davies' beautifully printed edition of 1927. After Defoe the eighteenth century produced no good writer about the country till near the end, when three arose\*: Arthur Young and Gilbert White, whom I have already mentioned, and William Cobbett, peasant son of Surrey and one of the most striking figures that ever stalked the English countryside, second only to John Wesley in the impression he made upon the people as he passed. Stern and rugged, hating bitterly everything effeminate and soft, contemptuous of all Jews, stock jobbers, and citizens of London generally, he was an ardent lover of good farmers and good animals. For him land and animals unfit for agriculture were altogether baneful. London was always the "Wen"; the Surrey heaths

\* This was also the time when François de la Rochefoucauld visited Suffolk (1874). His vigorous account of what he thought of the place and the people should certainly be read by the natives of that county. The Cambridge University Press has published the book (A Frenchman in England, 1933).

BOOKS AND THE FARMER  
(continued)

were abominations; Hindhead "certainly the most villainous spot that God ever made." For him, bread, beer, beef, and bacon were the divinely-ordained foods of an Englishman; tea and potatoes were disgusting if not dangerous: "It is notorious that tea ... besides being good for nothing, has badness in it. As for the potato: "It will bring English labourers down to the state of the Irish ... it is the root of slovenliness, filth, misery, and slavery; its cultivation has increased in England with the increase of the paupers; both, I thank God, are upon the decline ... Englishmen seem to be upon the return to beer and bread." You should have in your library his *Rural Rides*\* and also his *Cottage Economy* for its vivid English and its vigorous tirades against the changes then beginning in the countryside. But he had a good eye for the country and his descriptions hold us so that we have to read it.

Next in point of time to tell about the countryside comes George Borrow--another Eastern Counties man. Lavengro and Romany Rye should be on the farmer's list, though I am not quite sure whether the young people will like them. He doesn't deal with agriculture: he is vexatiously silent about the changes in farming that were then taking place; he was a tramp, or, rather, a super-tramp, who loved the road and the ale-house on the heath, boxing, and horses; he gave us, too, that wonderful creature Isobel Berners, who is surely fit to stand beside Hudson's Rima and Galsworthy's Megan David. But he afterwards married and settled down, and his later books need not go on our list. Wren Hoskyns' *Talpa*, or the *Chronicles of a Clay Farm* (1847) should be added, if possible the edition with Cruikshank's illustrations. Among the modern writers there is almost overwhelming difficulty of choice. Happily there is growing up to-day a new kind of literature faithfully describing the life of the countryman as it is, yet written with such insight and with so human and personal a touch as to have all the charm of a romance. Truth is, indeed, the secret of all eloquence and virtue. The forerunner was Richard Jeffries, the gamekeeper-writer who charmed our fathers fifty years ago, and his *Wild Life in a Southern County* and *Round About a Great Estate* still deserve a place on our list. Then came W. H. Hudson. His *Shepherd's Life* must be on the list, and, if you are in the West Country, his *Land's End*.

Later ones I put in alphabetical order. There is Adrian Bell -- you all know his *Corduroy*, the account of his farming experiences written so vividly that farmers can follow them with delight. George Bourne's biographies of himself (*The Wheelwright's Shop*) and his man Betteworth (*The Betteworth Book and Memoirs of a Surrey Labourer*) and his *Change in the Village* appeal to a wide circle of readers. Then there is Sassoon, whose *Memoirs of a Fox-hunting Man*, while not an agricultural book, is full of the life of the country; and, of course, A. G. Street, our most recent discovery -- a Wiltshire dairy-farmer blessed with a keen eye for human character, a retentive memory, a cheerful outlook

\* William Reeves has a good edition, edited by Pitt Cobbett.

BOOKS AND THE FARMER

(continued)

on life, and a great gift of writing, so that he can set down the things he has seen and heard and can make his sturdy farm workers talk before us. His Farmer's Glory is likely to last a long time.

I shall not, and could not if I wished, attempt to deal with the long list of writers of fiction who localise their stories and so bring in descriptions of people and of scenery recognisable as types by those who know the country. Of course, place must be found for some of these, but the choice must be left to the local expert. Trollope should be included in any list, and in hunting regions perhaps Surtees, though without the illustrations the present-day reader would probably not get far with him. Towering above them all, of course, is Hardy, and no library could leave him out. Nor could Quiller-Couch be omitted from Cornwall or Sheila Kaye Smith's novels from Sussex, or Mary Webb's from Shropshire. Finally, even on the shortest list we should put Victoria Sackville-West's poem The Land. It is a beautiful piece of work that would be widely appreciated by country readers.

Of course, there are many more, for happily there have always been men and women who have known something of the joy of the life-giving earth and the peace of a quiet garden, who in their dreams have walked --

Where a voice of living waters never ceaseth  
In God's quiet garden by the sea,  
And Earth, the ancient life-giver, increaseth  
Joy among the meadows, like a tree.

The County Libraries to-day have a great opportunity of introducing good literature to the countryman. It is a time of great changes, social, economic, and technical; old customs are dying out, new ones are not yet established: just the time, indeed, when new tastes can be fostered and the countryman made to realise something of the rich heritage of English literature that has come down to him, and of the worth of some of the books written in our own day.

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# AGRICULTURAL LIBRARY NOTES

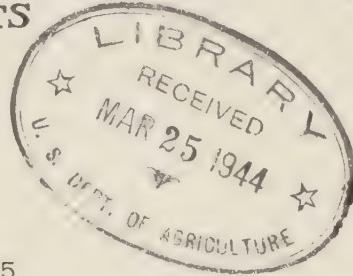
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AGRICULTURAL LIBRARY NOTES

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PRINCIPAL LIBRARY ACCESSIONS

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DORFMAN, J. Thorstein Veblen and his America. New York, Viking, 1935.

Biology

WELCH, P. S. Limnology. New York, McGraw-Hill, 1935.

Botany

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WALTON, G. L. The flower-finder. Ed. 4. Philadelphia, Lippincott, 1935.

Chemistry. Analysis

MOOR, C. G., and PARTRIDGE, W. Aids to the analysis of food and drugs. Ed. 5 rev. by J. R. Nicholls. London, Baillière, Tindall and Cox, 1934.  
BRITISH DRUG HOUSES, ltd., London. The B.D.H. book of reagents for 'spot' tests and delicate analysis. Ed. 4. London, 1935.

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BEARD, B. B., and WAILES, B. F. Child welfare in Virginia. Sweet Briar, 1934.  
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- BOWMAN, I. Geography in relation to the social sciences. New York, Scribner, 1934. (Report of the Commission on the social studies, American historical association. pt. 5)
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MARSH, L. C. Employment research; an introduction to the McGill programme of research in the social sciences. Toronto, Oxford university press, 1935. (McGill social research series, no. 1)

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NEW YORK (STATE) STATE PLANNING BOARD. COMMITTEE ON RECREATION. Report. [Albany? 1934] Mimeographed.  
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- WISCONSIN. LEGISLATURE. INTERIM COMMITTEE ON TAXATION PROBLEMS. Report. Madison, 1935.

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- COTTON SPINNERS' & MANUFACTURERS' ASSOCIATION. Uniform list of prices to be paid to weavers in the cotton manufacturing industry. Manchester, 1935.
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- BARGER, E. H., and CARD, L. E. Diseases and parasites of poultry. Philadelphia Lea & Febiger, 1935.
- CAMERON, T. W. M. The internal parasites of domestic animals. London, Black, 1934.
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WANTS

The Library of the Office of Experiment Stations would like to receive discarded copies of the following publications:

- U. S. Department of Agriculture Bulletin 1199, and Supplements 1, 2 and 3
- U. S. Department of Agriculture Miscellaneous Publications 65, 128, and 181

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LOST BOOK

The following book cannot be found. It will be appreciated if anyone having information in regard to it will notify the Loan Desk of the main Library (Tel. Branch 627; Room 1044)

Journal of agricultural science. Vol. 13, 1923. Copy 1.

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- WELLMAN, H. R. Marketing agreements under the agricultural adjustment act.  
*Veg. Growers' Assoc. Amer. Ann. Rpt.* 1934: 45-54. (Recd. Sept. 1935)

Bureau of Agricultural Engineering

- BENNETT, C. A. Preparing cotton gins for commencement of season. *Cotton  
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Bureau of Animal Industry

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- COTTON, W. E. New researches and developments on contagious abortion  
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\*These lists are prepared in the bureaus under which they are given, with  
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Making the home lawn. L. E. Longley. (Minn. Univ. Agr. Ext. Spec. Bul. 130, rev.) University Farm, St. Paul, 1935.

Mississippi

Mississippi spray calendar - orchard pest control practices. H. M. McKay. (Miss. State Col. Ext. Circ. 43, 2d rev.) State College, 1934.

New Hampshire

4-H organization standards in New Hampshire. C. B. Wadleigh (N. H. Univ. [Agr.] Ext. Junior Circ. 44.) Durham, 1935.

\*Prepared in Office of Experiment Stations Library

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING SEPTEMBER 1935

(Continued)

New York

- List of publications for general distribution ... (N. Y. Agr. Col. (Cornell) Ext. Bul. 47, rev.) Ithaca, 1935.
- Diseases, and insect and other pests, of the field bean in New York. W. H. Burkhader and C. R. Crosby. (N. Y. Agr. Col. (Cornell) Ext. Bul. 58, rev.) Ithaca, 1935.
- Bang's diseases in cattle. R. R. Birch and H. L. Gilman. (N. Y. Agr. Col. (Cornell) Ext. Bul. 326.) Ithaca, 1935.
- Clothing for children. R. J. Scott. (N. Y. Agr. Col. (Cornell) Ext. Bul. 328.) Ithaca, 1935.
- How to control your weight. H. M. Hauck. (N. Y. Agr. Col. (Cornell) Ext. Bul. 329.) Ithaca, 1935.
- Milk-house construction. B. A. Jennings. (N. Y. Agr. Col. (Cornell) Ext. Bul. 330.) Ithaca, 1935.
- Rural government in New York. M. P. Catherwood. (N. Y. Agr. Col. (Cornell) Ext. Bul. 331.) Ithaca, 1935.
- References, p. 39.

North Dakota

- Home drying of fruits and vegetables in North Dakota. (N. Dak. Agr. Col. Ext. Circ. 131.) State College Station, Fargo, 1935.

Ohio

- Quick bread. M. E. Gerlaugh. (Ohio Agr. Col. Ext. Bul. 162.) Columbus, 1935.
- Cakes and cookies. O. Hughes. (Ohio Agr. Col. Ext. Bul. 163.) Columbus, 1935.
- Electrical service for Ohio farms, now available through the R.E.A. I. P. Blauser. (Ohio Agr. Col. Ext. Bul. 165.) Columbus, 1935.

Oregon

- Poultry housing. F. L. Knowlton and others. (Oreg. Agr. Col. Ext. Bul. 480.) Corvallis, 1935.
- Uses of the guide pattern. A. Sager. (Oreg. Agr. Col. Ext. Bul. 482.) Corvallis, 1935.
- Home Economics Series.

Puerto Rico

- El servicio de extensión agrícola en Puerto Rico. M. F. Barrus and M. E. Keown. (Puerto Rico Univ. Agr. Ext. Bul. 1.) Rio Piedras, 1935.
- Los injertos y su aplicación en la finca. H. T. Cowles and E. Mattei. (Puerto Rico Univ. Agr. Ext. Bul. 2.) Rio Piedras, 1935.
- Semilleros de tabaco. F. J. Rodriguez. (Puerto Rico Univ. Agr. Ext. Bul. 3.) Rio Piedras, 1935.

Oct. 7, 1935

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING SEPTEMBER 1935  
(Continued)

Washington

- Eat apples. R. Russell and L. W. Hunt. (Wash. State Col. Ext. Bul. 204.)  
Pullman, 1935.
- Clothing for 4-H club girls, third year. M. Lowery. (Wash. State Col. Ext. 4-H Club Circ. 40.) Pullman, 1935.

West Virginia

- Building foundations for life enrichment in West Virginia, through the state 4-H camp, West Virginia's leaders' training school at Jackson's Mill under the direction of the Extension service, College of agriculture, West Virginia University. (W. Va. Agr. Col. Ext. Circ. 309.) Morgantown, 1935.
- A guide to planning the home grounds. T. D. Gray. (W. Va. Agr. Col. Ext. Circ. 310.) Morgantown, 1935.

Poultry houses and appliances for West Virginia. H. M. Hyre and others. (W. Va. Agr. Col. Ext. Circ. 311.) Morgantown, 1935.

How safe is your home? G. Humphreys. (W. Va. Agr. Col. Ext. Good Living Ser. III, Lesson no. 9, Adventures in Better Living.) Morgantown [1935]

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"How one successful Central Indiana dairy-hog farm is operated (110 acres)" by J. C. Bottum, is the title of a mimeographed bulletin recently issued by the Agricultural Experiment Station, Purdue University, Lafayette, Indiana. It is Stencil Bulletin No. 9, May 1935.

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CONGRESSES

Congrès de pomologie. Oct. 5 and 7, 1935. Bruxelles, Belgique. M. F. Dufour, Secrétaire Général du Comité national de Pomologie, Chaussee d'Houthem, 40, Vilvorde, Belgique.

Congrès international de zoologie, 12th, Lisbonne, Portugal, Sept. 15-21, 1935. Prof. A. Ricardo Jorge, President. Address: Faculdade de Ciencias, Lisboa, Portugal.

The International Commission of Agriculture will hold its next meeting, 1936, in Oslo, Norway.

THE GEOPONIKA, OR THE XX BOOKS OF AGRICULTURAL PRECEPTS OF  
CONSTANTINE CAESAR

The following extracts are taken from a brief article by Lettice M. Crump, which appeared in the Records of the Rothamsted Staff of Harpenden, no. 5, June 1935, under the title given above.

"The XX Books of Constantine Caesar contain a variety of agricultural information collected from many sources. The identity of the editor and the date at which he compiled this work are both matters of considerable doubt, but the theory most commonly held is that a certain Cassianus Bassus was responsible for a Greek manuscript, produced in the sixth or early seventh century, and that his work was later attributed to Constantine Porphyrogenitus, who was Emperor of Eastern Rome in the ninth century, and was a patron of art and literature, and the author of several works. There are, however, at least two other early manuscripts in addition to the Greek one, one Arabic and one Syrian, and if either of these should prove to be earlier than the Greek, Cassianus Bassus becomes merely a translator and not a compiler. If the Arabic version is the original, the author was probably a man named Kossus; no definite name is associated with the Syrian version. Translations into Latin, French, German, Italian and English have all been made at various dates, and the Rothamsted Library contains the following printed editions: 1538 Basle, 1538 Venice, 1540 Basle, 1541 Lyons, 1542 Venice, 1545 Poitiers, 1545 Strasbourg, 1549 Venice, 1551 Strasbourg, 1554 Venice.

"In any case, 'The XX Books' are made up of quotations from the works of forty-four earlier authors, and each book deals with one general subject, but is divided into numerous short chapters. The first twelve books deal with various crops and the methods of treating them; vines bulk largest, but grain and flowers are also considered, and so are a number of trees. The later books deal with insect pests and their destruction, with bees, and with all kinds of domestic birds, beasts and fishes. Very little is known about many of the original authors, and they cover a wide range of years. Cassianus Bassus himself figures among them as the author of two brief chapters on the culture of the vine; in one of these he gives hints on the time of planting, and in the other on methods of treating unhealthy plants, and in one he alludes to Maratonyme as his native land, and in the other claims familiarity with the customs of Bithynia. The critical work that has been done on the early manuscripts has mostly been carried out by German commentators, and while one believes Cassianus Bassus to have been a man owning land and slaves, with a country estate, another asserts that his interest in agriculture was purely academic, and his knowledge invariably second-hand. Whatever the truth may be, this author of doubtful identity, with his disputed position and his unknown date, has produced a book of real interest to the modern world, showing the mixture of knowledge and superstition that informed the husbandmen of South-Eastern Europe during the first thousand years of the Christian era."

**Editorial Note:** The U. S. Department of Agriculture Library has the following printed editions: 1538 Venice, 1539 Basle, 1543 Leyden, 1545 Strasbourg, 1549 Venice, 1550 Paris, 1554 Strasbourg, 1563 Strasbourg. The Library also has a translation from the Greek, by the Rev. T. Owen, which was published in London in 1805.

THE IMPROVEMENT OF THE PUBLISHING OF BOTANICAL WORK  
Summary of Proposals  
By Dr. Susan J. Wellensiek, Buitenzorg, Java

[Editorial Note: At the Sixth International Botanical Congress held at Amsterdam, Holland, September 2-7, 1935, Dr. Susan J. Wellensiek, Plant Pathologist at the Algemeen Proefstation voor Thee, Buitenzorg, Java, presented a detailed report on the publishing of botanical work. This report included statistical data indicating "that an improvement of the efficiency of publishing is highly desirable." Following is the summary of Dr. Wellensiek's proposals to accomplish this end. Her report was referred by the Congress to a special committee]

- I. That English be made the official botanical world language, which would mean that all papers, containing first-hand technical information and not written in English, should contain an English summary.
- II. That a small working committee be appointed, to which the secretaries of the botanical societies all over the world act as correspondents ex-officio, while the committee should also keep in touch with librarians of large botanical libraries. This committee should, as fast as possible, prepare and publish a report which will serve as a basis for a final discussion and for the fixing of rules regarding the technical phases of publishing. The committee is instructed, as a basis for preparing its report, and definite proposals:
  1. To study the literature on the subject of publishing botanical work, also on publishing on related fields, such as chemistry, medicine e. s. o.
  2. To collect the opinions of botanists and of library people, who are able to judge.
  3. To study the existing rules on standardization of size of journals and such-like.
  4. To prepare a complete list of botanical journals, indicating whether they are semi- or wholly popular and to which special field they are devoted. To this list registers should be added.
  5. To study the preparation of journals in general in order to increase their efficiency.
  6. To study the technical composition of individual publications, regarding title, author's name and address, mentioning of date of publication, table of contents, literature citation, summary, reprints.
  7. To do anything which it considers worth while doing with regard to the subject.
- III. As to the composition of the working committee, it is suggested that it should consist of three botanists - eventually of two botanists and one botanical librarian - situated in a place with a large botanical library, in a country with a favourable attitude towards the work to be done. Such a place might, for instance, be Washington, D. C., U. S. A.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
of the U. S. Department of Agriculture  
received during September 1935, exclusive of bibliographies\*  
and current issues of serials.\*\*

Agricultural Adjustment Administration

Detailed outline of AAA amendments (Public no. 320, enacted August 24, 1935) 1935. 17 p.

Progress in adjusted cotton under the Agricultural adjustment act. Address by Cully A. Cobb. [Aug. 1935] 9 p. (Issued by Division of cotton)

Sources of information on consumer organization and education. 1935. 12 p.

Status of all marketing agreements issued by the Agricultural adjustment administration to [Sept. 11, 1935] 16 p.

Wheat conference manual for use at regional, state, and county conferences and meetings in Aug.-Sept. 1935 on the wheat production adjustment program for 1936-1939. 1935. unp. (Issued by Division of grains, Wheat section)

Bureau of Agricultural Economics

Agricultural loans held by commercial banks. 1935. 3 p. (Issued by Division of agricultural finance)

A brief review of the Oregon-Washington fresh prune season, 1935. 2 p.

Cost of production of melons, cantaloupes, honeydew melons, watermelons. Data from studies in 13 states, selected years, 1914-32. Compiled from official sources by H. W. Hawthorne. 1935. 26 p. (Issued by Division of management and costs)

Cost of production of onions. Data from studies in 18 states, selected years, 1914-34. Compiled from official sources by R. P. Matteson and H. W. Hawthorne. 1935. 29 p.

Increased supplies of by-product feeds relieved shortage of feed grains in 1934-35. 6 p. (Special feed review. Aug. 22, 1935) (Issued by Hay, feed and seed division)

Index numbers of prices, taxes and interest payable by farmers. By Arthur G. Peterson. 1935. 7 p. (Issued by Division of statistical and historical research)

Livestock, meats, and wool market statistics and related data, 1934. Compiled in Livestock, meats and wool division by the Statistical section. 1935. 121 p.

\*Bibliographies included in general list of bibliographies on page

\*\*For a list of the principal series issued regularly, see v. 9, no. 10, p. 354.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics  
(Continued)

Objectives in federal grain supervision. By Edward C. Parker. 1935. 27 p. Address, Annual meeting, Grain and feed dealers' national association, St. Louis, Missouri, Sept. 20, 1935. (Issued by Grain division)

Preparation and marketing of flue-cured tobacco. By Frank E. Wilkinson and Hugh W. Taylor. 1935. 16 p.

Quality of 1935 grain crops. 1935. 3 p. (Issued by grain division)

The summer wheat outlook. 1935. 3 p.

Tax delinquency of rural real estate in 139 Connecticut towns, 1928-33. 1935. 11 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 37 Massachusetts towns, 1928-33. 1935. 11 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 23 Pennsylvania counties, 1928-33. 1935. 13 p. (Issued by Division of agricultural finance)

Tentative U. S. standards and grades for dressed turkeys. Sept. 1935. 8 p.

Truck receipts of fresh fruits and vegetables at 12 important markets for calendar years 1934 and 1933 stated in car-load equivalents by months for 1934 and totals for 1934 and 1933. 1935. 34 p. (Issued by Market news service)

Warehousemen licensed under United States warehouse act as of the close of August 31, 1935. 18 p.

Bureau of Agricultural Engineering

Preparing cotton gins for the commencement of the season. By Chas. A. Bennett. 1935. 4 p.

Self-Angling disk jointer. 1935. 2 p. (Issued by Division of mechanical equipment)

Some engineering features involved in the United States cotton ginning investigations. By Chas. A. Bennett. 1935. 10 p. (Paper presented before the Texas cotton ginners' association, at Dallas, Texas, April 5, 1935).

Variable-depth cotton planter. 1935. 2 p. (Issued by Division of mechanical equipment)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
 (Continued)

Bureau of Animal Industry

Equine encephalomyelitis. By L. T. Giltner... and M. S. Shahan...[1935]  
 5 p. (Issued by Pathological division)

National poultry improvement plan. 1935. 13 p. (A.H.D. no.14) (Issued  
 by Animal husbandry division)

Bureau of Biological Survey

Bird refuges and big-game preserves administered by the Bureau of biological  
 survey. 1935. 7 p. (Wildlife research and management leaflet BS-16)

Planting for wildlife in the corn belt. By W. L. McAtee. 1935. 2p.  
 (Wildlife research and management leaflet BS-14)

Planting for wildlife in the cotton belt. By. W. L. McAtee. 1935. 2 p.  
 (Wildlife research and management leaflet BS-15)

Protecting grain crops from damage by wild fowl. By E. R. Kalmbach. 1935.  
 7 p. (Wildlife research and management leaflet BS-13)

Wildlife of the Atlantic coast salt marshes. By W. L. McAtee. 1935. 22 p.  
 (Wildlife research and management leaflet BS-17)

Bureau of Chemistry and Soils

Causes and prevention of dust explosions and dust fires in industrial  
 plants. Address by David J. Price [before] session on fire prevention  
 in industry, National safety congress, Louisville, Ky., Oct. 15, 1935.  
 6 p. (Issued by Chemical engineering division)

How to make best quality sorghum sirup. [By] C. F. Walton, jr., E. K. Ventre  
 and S. Byall. Revised July 1935. 6 p.

How to prevent slow boiling, scorching, clobbering, and sugaring of sorghum  
 sirup. By C. F. Walton, jr., E. K. Ventre and S. Byall. Revised July  
 1935. 6 p..

Information regarding the equipment (with estimated cost) required for using  
 the method of processing honey described in the article entitled "A small  
 plant for filtering honey", by H. S. Paine and R. E. Lothrop. 1935. 2 p.

Progress made in dust explosion prevention in food industries. Address by  
 David J. Price, [at] Food section, National safety congress, Louisville,  
 Ky., Oct. 15, 1935. 3 p. (Issued by Chemical engineering division)

Report on studies on uniformity of quality of sugars. 1935. 17 p. (Issued  
 by Carbohydrate division and Food research division)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
 (Continued)

Bureau of Entomology and Plant Quarantine

Moth catcher for laboratory use. By F. H. Lathrop. 1935. 2 p. (ET-59)  
 (Issued by Division of fruit insect investigations)

Extension Service

The economic situation which led to the five national programs affecting agriculture. By R. B. Corbett. 1935. 27 p. (Issued by Division of cooperative extension)

A proposed school for extension workers to be conducted in the several states by the Department of agriculture under the supervision of the directors of state extension services. 1935. 6 p.

Forest Service

Annual report for fiscal year 1935 and investigative program for fiscal year 1936 [of Northeastern forest experiment station] 1935. 26 p.

Behavior of house paints on different woods. By F. L. Browne...1934. 25 p. (Issued by Forest products laboratory, in cooperation with the University of Wisconsin, Madison, Wisconsin)

Effectiveness of paint primers and paints in retarding the absorption of moisture by wood. By F. L. Browne, 1933. 27 p. (Issued by Forest products laboratory in cooperation with the University of Wisconsin, Madison, Wisconsin)

An eight-year progress report of the Central states forest experiment station, 1927-1935. By Willis M. Baker. 1935. 5 p.

Factors that influence the decay of untreated wood in service and comparative decay resistance of different species. By Geo. M. Hunt...Revised July, 1935. 5 p. (Issued by Forest products laboratory, in cooperation with the University of Wisconsin, Madison, Wisconsin)

Forest research digest, Jan. 1935 - monthly. (Issued by The Lake states forest experiment station)

Outlets for wood waste; a general statement of actual and potential uses of various kinds of wood waste. 1934. 31 p. (Issued by Forest products laboratory, in cooperation with the University of Wisconsin)

Some notes in the "blinker" moisture indicator for wood. By M. E. Dunlap. 1935. 11 p. (Issued by Forest products laboratory in cooperation with the University of Wisconsin)

## SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Forest Service

(Continued)

Special printing paints for wood. By F. L. Browne. 1934. 15 p. (Issued by Forest products laboratory in cooperation with the University of Wisconsin, Madison, Wisconsin)

Technic of determining the causes of damage to package goods in storage and transit. By T. A. Carlson. 1934. 41 l. (Issued by Forest products laboratory, in cooperation with the University of Wisconsin, Madison, Wisconsin)

The use of the rod mill for fiber processing (a collection of publications on the rod mill) Compiled by P. K. Baird. 1931. 80 p. (Issued by Forest products laboratory, in cooperation with the University of Wisconsin, Madison, Wisconsin)

Bureau of Home Economics

Planning farm family living. 1935. 21 p.

Bureau of Plant Industry

Foreign wheat introductions. 1935. 18 p. (Issued by Division of cereal crops and diseases)

Preliminary estimates of crop losses, 1934. 1935. 23 p. (Issued by Division of mycology and disease survey)

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DUPLICATES OFFERED FOR EXCHANGE  
By the U. S. Department of Agriculture Library

The Analyst; the organ of the Society of public analysts and other analytical chemists. v. 32-38 (1907-1913) bound; v. 45, Jan.-Feb., Apr., June-Dec. (1920); unbound; v. 46, Feb.-Dec. (1921), unbound.

Annales de chimie analytique... et revue de chimie analytique réunies. v. 12-20 (1907-1915) bound.

Annales des falsifications et de fraudes. v. 1-6 (1908-1913) bound; v. 7 (1914) unbound, lacking Aug.-Dec.

Bulletin de l'association des chimistes de sucrerie et de distillerie de France et des colonies. t. 20 (1902-1903) bound.

Bulletin international de la répression des fraudes. v. 1-6 (1908-1913) bound.

British food journal. v. 9-15 (1907-1913) bound.

Chemiker-zeitung. v. 31-37 (1907-1913) bound.

Chemisch-technisches repertoriu; beilage der Chemiker-zeitung. v. 31-37 (1907-1913) bound.

Der Chemische akersmann. Jahrg. 1-21 (1855-1875) bound.

Journal of the Society of chemical industry. v. 28-32 (1909-1913) bound.

Zeitschrift für analytische chemie begründet von R. Fresenius. Jahrg. 46-52 (1907-1913) bound.

Zeitschrift für untersuchung der nahrungs und genussmittel. v. 1-26 (1896-1913) bound.

Gesetze und verordnungen sowie gerichtsentscheidungen betreffend nahrungs- und bebrauchsgegenstände; beilage to Zeitschrift für untersuchung der nahrungs und genussmittel. v. 1-5 (1909-1913) bound.



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AGRICULTURAL LIBRARY NOTES

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PRINCIPAL LIBRARY ACCESSIONS

Apiculture.

- EMELEN, D. A. van. Cartilha de apicultor brasileiro. Ed. 3. S. Paulo, Chacaras e quintaes, 1934.  
SNELGROVE, L. E. Swarming; its control and prevention. Ed. 2. Paulton (Somerset) and London, Purnell, 1935.  
ZANDER, E. D. H. Beiträge zur herkunftbestimmung bei honig. v. 1. Berlin, Reichsfachgruppe imker, 1935.

Bacteriology.

- KOLLE, W., and HETSCH, H. Experimental bacteriology in its applications to the diagnosis, epidemiology, and immunology of infectious diseases. Translated from the 7th ed. London, Allen & Unwin, 1934.

Biography

- BIDDLE, V. René Bache. Philadelphia, Dorrance, 1935.  
NATIONAL CYCLOPAEDIA OF AMERICAN BIOGRAPHY. Indexes: personal and topical indexes to the published volumes. New York, White, 1935.

Botany

- BOWER, F. O. Primitive land plants. London, Macmillan, 1935.  
DELEVOY, G. Contribution à l'étude de la végétation forestière de la vallee de la Lukuga (Katanga septentrional). Bruxelles, Hayez, 1933. (Extrait des Mémoires publiés par l'Institut royal colonial belge (Section des sciences naturelles et médicales) Collection in 8°. tomo 1)  
HILLMANN, J. Teloschistaceae, von J. Hillmann. Physciaceae, von B. Lynge.  
HILLMANN, J. Teloschistaceae, von J. Hillmann. Physciaceae, von B. Lynge. Leipzig, 1935. (Dr. L. Rabenhorsts Kryptogamen-flora von Deutschland, Osterreich und der Schweiz. bd. 9, abt. 6)  
MAGNUSSON, A. H. Acaraspidae und Thelocarpidae, von A. H. Magnusson. Pertusariaceae, von C. F. E. Erichsen. Leipzig, 1935. (Dr. L. Rabenhorsts Kryptogamens-flora von Deutschland, Osterreich und der Schweiz. bd. 9, abt. 5, t. 1)  
PRAEGER, R. L. The botanist in Ireland. Dublin, Hodges, Figgis, 1934.  
SCHIMPER, A. F. W. Pflanzengeographie auf physiologischer Grundlage. Ed. 3. Jena, Fischer, 1935.

Chemistry

- BAUSCH, H. Arbeitsvorschriften zur chemisch-technischen Betriebskontrolle für die studierenden des Instituts für Garungsgewerbe an der Landwirtschaftlichen Hochschule in Berlin. Ed. 2. Berlin, 1934.  
FIESER, L. F. Experiments in organic chemistry. Boston, Heath, 1935.

PRINCIPAL LIBRARY ACCESSIONS

Chemistry  
(Continued)

- GERLACH, W. Clinical and pathological applications of spectrum analysis. Translation of part II of "Die chemische emissionspektralanalyse", London, Hilger, 1934.
- HILGER, A., Ltd., London. The practice of spectrum analysis with Hilger instruments, comp. by F. Twyman. Ed. 6. London, 1935.
- HISCOX, G. D., ed. Henley's twentieth century book of formulas, processes and trade secrets, Rev. ed. New York, Henley, 1935.
- MORTON, R. A. The application of absorption spectra to the study of vitamins and hormones. London, Hilger, 1935.
- PERKIN, F. M. Qualitative chemical analysis, organic and inorganic. Ed. 5, London, Longmans, Green, 1935.
- STARCK, H. P. Volumetric analysis. London, Bailliere, Tindall and Cox, 1934.  
---- Qualitative analysis tables (an appendix to "Volumetric analysis") London, Baillière, Tindall and Cox, 1934.
- WYCKOFF, R. W. G. The structure of crystals. Supplement for 1930-1934 to Ed. 2. New York, Reinhold, 1935. (American chemical society. Monograph series no. 19A)

Commerce

- CROWTHER, S. A second primer; the results of a year of simple arithmetic. New York, Chemical foundation, 1935.
- IANSON, I. D. Foreign trade in the U.S.S.R. London, Gollancz, 1934.
- MANCHESTER, Eng. CHAMBER OF COMMERCE. Official handbook, 1935. Manchester, 1935.
- UNION SOCIAL ECONOMICA DE CUBA. Cooperation. Havana, "Omega", 1935.

Comparative anatomy

- ELLENBERGER, W., and BAUM, H. Handbuch der vergleichenden anatomie der haustiere Ed. 17. Berlin, J. Springer, 1932.
- HESSE, R., and DOFLEIN, F. Tierbau und tierleben in ihrem zusammenhang betrachtet. Ed. 3. v. 1. Jena, Fischer, 1935.

Concrete

- BÖHM, F. Das betonieren bei frost. Ed. 2. Berlin, Ernst, 1935.
- BROOME, D. C. The testing of bituminous mixtures. London, Arnold, 1934. (The roadmakers' library, v. 2)
- CAUGHEY, R. A. Reinforced concrete - mechanics and design. Ann Arbor, Mich., Edwards, 1933.
- GREEN, J. S. Concrete engineering. v.1. London, Griffin, 1933.
- LEA, F. M., and DESCH, C. H. The chemistry of cement and concrete. New York, Longmans, Green, 1935. (Revision of Desch's "The chemistry and testing of cement")
- STROYER, R. Concrete structures in marine work. Westminster and Kingston-on-Thames, Knapp, Drewett, 1934.

PRINCIPAL LIBRARY ACCESSIONS  
(Continued)

Cooperation

- ANDERSON, R. A. With Horace Plunkett in Ireland. London, Macmillan, 1935.  
COTTA, F. Agricultural co-operation in fascist Italy. London, King, 1935.  
MARKETING CONFERENCE AND CO-OPERATIVE INSTITUTE, Olds, Alberta, 1934. Raport.  
[n.p., 1934?]  
PIERRE, prince of Greece. Les coopératives agricoles danoises et le marché extérieur. Paris, Sirey, 1935.  
POLIN, R., and CHARON, J. G. Les coopératives rurales et l'état en Tchécoslovaquie et en Roumanie. Paris, Alcan, 1934.

Dairying

- INTERNATIONAL DAIRY CONGRESS. 10th, Rome, Milan, 1934. [Report] Roma, 1934.

Directories

- JUNK, W. DipteroLOGI. Den Haag, Junk, 1935.  
SPECIAL LIBRARIES DIRECTORY OF THE UNITED STATES AND CANADA. Ed. 3. New York,  
Special libraries association, 1935.

Economics

- BRUJKUS, B. D. Economic planning in soviet Russia. London, Routledge, 1935.  
CANADIAN INSTITUTE ON ECONOMICS AND POLITICS. Addresses and outlines of  
addresses given July 30 to Aug. 11, 1934. [n.p.] National Council YMCAs  
Canada [1934?] Mimeographed.  
CREAMER, D. Is industry decentralizing? A statistical analysis of locational  
changes in manufacturing employment, 1899-1933. Philadelphia, 1935. (Bulletin  
no. 3. Study of population redistribution. Industrial research dept., Wharton  
school of finance and commerce, University of Pennsylvania)  
EMORY UNIVERSITY, ATLANTA. INSTITUTE OF CITIZENSHIP. Political and economic  
problems of the South. 1935. (Addresses and discussion 8th annual Institute)  
GINSBERG, M. Sociology. London, Butterworth, 1934.  
GOODRICH, C. L., and others. Migration and planes of living, 1920-34.  
Philadelphia, 1935. (Bulletin no. 2. Study of population redistribution.  
Industrial research dept., Wharton school of finance and commerce, University  
of Pennsylvania)  
HAWAII (Ter.) UNEMPLOYMENT WORK RELIEF COMMISSION. Emergency relief in  
territory of Hawaii, U.S.A. Honolulu, Advertiser pub. co., 1935.  
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208.) Pullman, 1935.

West Virginia

HUMPHREYS, G. Reading in the home. (W. Va. Agr. Col. Ext. Good Living Ser. III,  
Lesson no. 10, Adventures in Better Living.) Morgantown, [1935]

Wisconsin

BOYNTON, A. M., and KIRKPATRICK, E. L. Possibilities of a rural youth movement.  
(Wis. Agr. Col. Ext. Spec. Circ. [unnumbered]) Madison, 1935.  
Rural Youth and Rural Life Series.  
Mimeographed.

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The American Society of Agricultural Engineers on October 9, 1935,  
dedicated a memorial to John Johnston, originator of tile drainage in  
America in 1835. The memorial is on the Johnston Farm near Geneva, N. Y.  
Addresses were made by Dr. U. P. Hedrick, Director of the Geneva Experiment  
Station, Mr. L. F. Livingston, President, American Society of Agricultural  
Engineers, Dr. A. C. Flick, State Historian, Mr. S. H. McCrory, Chief, Bureau  
of Agricultural Engineering, U. S. Department of Agriculture, Dr. L. H.  
Bailey, Professor of Agriculture, Emeritus, Cornell University, and Mrs. Waldo  
Hutchins, of Geneva, granddaughter of John Johnston. John Johnston wrote no  
books but his occasional pithy statements which he contributed to farm journals  
had great weight.

## BIBLIOGRAPHIES AND LISTS

### Miscellaneous

- Imperial bureau of soil science, Harpenden, Eng. Bibliography of soil science, fertilizers and general agronomy, 1931-1934. Harpenden, Eng., 1935. 473 p.
- London. Science museum, Science library. Rubber; its anti-oxidants and preservatives, [a bibliography] compiled by the Science library and the Research association of British rubber manufacturers. London, 1934. 82 numb. 1. (Bibliographical series, no. 151)
- U. S. Farm credit administration. Library. A selected list of references on the Farm credit administration. Compiled by Robert Haven Willey... under the direct supervision of Miriam C. Vance... Librarian, Washington, 1935. 56 p. Mimeographed.
- U. S. Bureau of reclamation. Bibliography on natural and pozzolanic blended cements and related subjects, by S. P. Wing. Under direction of B. W. Steele. Denver, 1934. 50 p. Mimeographed.

### U. S. Department of Agriculture

#### Bureau of Agricultural Economics.

Agricultural relief measures relating to the raising of farm prices - 70th Congress, Dec. 5, 1927, to March 3, 1929. Compiled by Louise O. Bercaw. 1935. 27 p. Mimeographed.

List of periodic dairy reports issued by the Bureau of agricultural economics. 1935. 4 p. Mimeographed.

#### Bureau of Biological Survey.

Available publications of the Bureau of biological survey. Prepared in the Division of public relations. Rev. Sept. 1935. 6 p. (Wildlife research and management leaflet BS-4) Mimeographed.

#### Bureau of Chemistry and Soils.

List of articles from the Fertilizer investigations unit, Bureau of chemistry and soils, published in scientific and technical journals. 1935. 34 p. Mimeographed.

List of selected references on distilled liquors and alcohol. Compiled by Harry E. Goresline. 1935. 3 p. (Issued by Food research division) Mimeographed.

Narasin. Compiled by H. H. Mottern. 1935. 3 p. (Issued by Food research division) Mimeographed.

Papaya and papain. A list of references compiled by V. A. Pease. 1935. 10 p. (Issued by Food research division) Mimeographed.

Selected references on gelatine, 1920 to 1934. Compiled by V. A. Pease. 1935. 3 p. (Issued by Food research division) Mimeographed.

Tea; selected references compiled by V. A. Pease. 1935. 2 p. (Issued by Food research division) Mimeographed.

#### Bureau of Entomology and Plant Quarantine.

A contribution to a bibliography of the described immature stages of North American coleoptera. By J. S. Wade. 1935. 114 p. (E-358) (Issued by Cereal and forage insect investigations) Mimeographed.

BIBLIOGRAPHIES AND LISTS

U. S. Department of Agriculture  
(continued)

Forest Service.

List of publications: chemistry of wood and derived products. 1935. 29 p.  
(Issued by Forest products laboratory) Mimeographed.

A partial list of references, bearing upon selective timber management with special reference to the Pacific northwest. Prepared by Pacific northwest forest experiment station. 1935. 10 p. Mimeographed.

Publications, mimeographs, important manuscripts, prepared by the staff of Pacific northwest forest experiment station and Forest insect field laboratory, July 1935, to May 1935. 1935. 38 p.

Library.

Selected references on the history of agriculture in the United States. Compiled by Everett E. Edwards, Associate Agricultural Economist, Bureau of Agricultural Economics. 1934. 28 p. Mimeographed.

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NOTES ON PERIODICALS

Annales des fermentations. Masson & cie., éditeurs, Libraires de l'Académie de médecine. 120, Boulevard Saint-Germain, Paris. Appears 10 times a year. 8° tome 1, no. 1, May 1935. Subscription: France et colonies, 60 fr.

Étranger. 75 fr.

Časopis československých houbařů. Acta Societatis mycologicae čechoslovenicae. Praze. Changed to Č Č H. Mykologický zborník. Acta Societatis mycologicae čechoslovenicae. with roč 15, číslo 1-2, 1935.

The Fruit world of Australasia and "Market grower". Melbourne. Changed to The Fruit world & "Market grower" with v. 36, no. 8, Aug. 1935.

The Journal of biological chemistry. Spiess & Washon, 1107 Broadway, New York, N. Y., freq. not stated. 8° vol. 1, no. 1, Nov. 1935. Price: 10 cents per copy.

Journal of social philosophy. College of the City of New York, Covent Avenue and 139th St., N. Y. quar. 4° vol. 1, no. 1, Oct. 1935. Subscriptions: \$3.00 a year; \$1.00 a single copy.

Norsk landmannsblad. Oslo. Discontinued with årg. 54, nr. 25, June 27, 1935. Combined July 5, 1935, with Ukeskrift for landbruk og pelsdyravl to form Norsk landbruk.

Norsk landbruk. Oslo. w. 4°. il. årg. 1, nr. 1, July 5, 1935. Merger of Norsk landmanbsblad and Ukeskrift for landbruk og pelsdyravl.

The Producer-consumer. The Producer-Consumer publishing company, inc., Amarillo, Texas. mo. f°. il. vol.1, no. 1, July 1935. 60 cents a year. Outside of Texas, Oklahoma, and New Mexico \$1.00 a year.

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"Wildlife review, an abstracting service for wildlife management", is the title of a new periodical of the Department. It is published by the Bureau of Biological Survey and was established for the benefit of employees and co-operators of that bureau. It is intended to abstract all pertinent papers appearing from 1935 on and eventually to list the more important previous publications. No regularity of issue is promised but numbers will appear from time to time as the material on hand warrants. They will be consecutively numbered so that the completeness of sets can be checked. No. is for September 1935.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
of the U. S. Department of Agriculture  
received during October 1935; exclusive of bibliographies\*  
and current issues of serials.\*\*

Office of the Secretary

Comments on the agricultural situation. Radio talk by Honorable Henry A. Wallace, broadcast during the Department of agriculture period of the National farm and home hour, Oct. 21, 1935. 3 p.

Governmental favoritism to special group's. A radio talk by Honorable Henry A. Wallace, delivered in the Department period of the National farm and home hour Tuesday, Oct. 15, 1935. 3 p.

The problems of a high-tariff creditor nation. Address by Henry A. Wallace, in the National radio forum, Washington, D. C., Oct. 14, 1935. 9 p.

Scarcity versus abundance. Abstract of talk by Mordecai Ezekiel before 1935-36 alumni forum, N. Y. University, Oct. 8, 1935. 5 p.

Two years of wheat adjustment. A radio address delivered by M. L. Wilson in the Department period of the National farm and home hour, Oct. 14, 1935. 3 p.

Agricultural Adjustment Administration.

Auditing and accounting for the Agricultural adjustment administration. By John B. Payne. 1935. 28 p.

The potato problem. 1935. 11 p. (Issued by Potato section)

Proposals for meeting the potato problem. 1935. 3 p. (Issued by Potato section)

Proposed marketing agreement and proposed order for handlers of naval stores. 1935. 40 p. (Docket no. A-8, O-8)

Proposed marketing agreement and proposed order regulating the handling of celery grown in the state of Florida, 1935. 42 p. (Docket no. A-7, O-7)

Proposed marketing agreement and proposed order regulating the handling of potatoes grown in Colorado, Nebraska, Wyoming, and Idaho, 1935. 30 p. (Docket no. A-9, O-9)

Questions and answers regarding potato programs. 1935. 8 p.

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\*Bibliographies included in general list of bibliographies on page 472.

\*\*For a list of the principal series issued regularly, see v. 9, no. 10, p. 384.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Agricultural Adjustment Administration  
(continued)

The referendum on the corn-hog program. Speech of G.B. Thorne at Shenandoah, Iowa. Oct. 18, 1935. 10 p. (Issued by Division of live-stock and feed grains)

Shall corn-hog adjustment continue? A brief economic analysis and related statistics. 1935. 20 p. (Form C.H.R. 4)

Tentatively approved marketing agreement regulating the handling of walnuts grown in California, Oregon, and Washington. 1935. 27 p. (Docket no. A.1, A.2 - O.1, O.2)

Bureau of Agricultural Economics

Arizona citrus tree and acreage survey of 1935. By Reginald Royston and M. R. Wells. A preliminary report. 1935. 16 p.

Cost of production of fresh peas. Data from studies in 11 states, selected years, 1914-33. Compiled from official sources by H. W. Hawthorne. 1935. 25 p. (Issued by Division of farm management and costs)

Cotton production in northeast Brazil. By P. K. Norris. 1935. 22 p. (F.S.-64) (Issued by Foreign agricultural service)

Demand, credit, prices outlook charts, for use with agricultural outlook for 1936. 1935. 30 p.

Farm real-estate taxes in the United States, 1913 to 1934. 1935. 2 p. (Issued by Division of agricultural finance)

Farm value, gross income, and cash income from farm production, 1932-1933-1934. State summaries. 1935. unp. (Issued by Division of crop and livestock estimates)

Index numbers of prices received by farmers for farm products 1910 to 1935. Prepared by Arthur G. Peterson under the direction of O.C. Stine. 1935. 72 p. (Issued by Division of statistical and historical research)

Influence of test weight per bushel on milling and baking quality of hard red spring wheat - crop of 1935. By D.A. Coleman. A preliminary report. 1935. 13 p. (Issued by Grain division)

The livestock situation for 1935-36. By C. A. Burmeister. 1935. 9 p. (Address, Annual convention of the Institute of American meat packers, Chicago, October 21, 1935)

Marketing Colorado cantaloupes; a brief review of the 1935 season. By W. D. Googe. 1935. 14 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics  
(continued)

Marketing Georgia peaches, 1935 season. 1935. 8 p. (In cooperation with Georgia Dept. of agriculture, Bureau of markets)

Marketing Imperial valley lettuce; summary of 1935 season. By A.E. Prugh. 1935. 21 p.

Marketing northwestern apples; a summary of the 1934-1935 season. By L. B. Gerry and L.S. Fenn. 1935. 47 p.

Marketing the lower Rio Grande valley Texas potato crop; brief review of the 1935 season. By W. D. Googe. 1935. 11 p. (In cooperation with Texas Dept. of agriculture, Markets division)

1934 shipments of northwestern fruits and vegetables unloaded. 13 p. (Issued by Market news service, Seattle, Washington)

Research in progress in the Bureau of agricultural economics, July 1, 1935. Prepared for use of research workers in the Bureau of agricultural economics, the state agricultural colleges and experiment stations, and other research agencies in agricultural economics. 1935. 84 p.

Revised estimates of receipts from the sale of principal farm products, by states, January 1934 - June 1935. 57 p.

Revised estimates of rye acreage, yield per acre and production, 1866-1929. 1935. 50 p.

Statistics of the peach industry. Prepared for the use of outlook workers. 1935. 28 p.

Tax delinquency of rural real estate in nine Louisiana counties, 1928-33. 1935. 15 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 45 Mississippi counties, 1928-33. 1935. 17 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 11 Idaho counties, 1928-33. 1935. 11 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 55 Texas counties, 1928-33. 1935. 17 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 16 New York counties, 1928-33. 1935. 14 p. (Issued by Division of agricultural finance)

U. S. standards for cleaned (unshelled) Virginia type peanuts. Effective November 1, 1935. 4 p.

U. S. standards for shelled Virginia type peanuts. Effective November 1, 1935. 5 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
(continued)

Bureau of Agricultural Engineering

The engineering reorganization of farms. [By] N.A. Kessler, 1935. 7 p.  
Paper delivered before the Annual meeting of the American society of agricultural engineers at Athens, Georgia, June 20, 1935.

Bureau of Animal Industry

Poultry culture in the Salt river valley of Arizona. By Burt W. Heywang. 1935. 3 p. (A.H.D. 15) (Issued by Animal husbandry division)

Bureau of Biological Survey

Federal regulations on hunting waterfowl explained. Oct. 1935. 4 p. (Wild-life research and management leaflet BS-18)

Fifty years of conservation. Address delivered by Jay N. Darling at Lake Placid, N. Y., on September 13, 1935. 3 p.

Plants valuable for wildlife utilization and for erosion control. By W. L. McAtee. 1935. 11 p. (Wildlife research and management leaflet BS-19).

Bureau of Chemistry and Soils

How to prevent sugaring of sugarcane sirup. By C.F. Walton, jr., and E.K. Ventre. Revised July 1935. 6 p.

Suggestions on making best quality sugarcane sirup, and how to use the decolorizing carbon. [By] C. F. Walton, jr., and E.K. Ventre. Revised Sept. 1935. 8 p.

Bureau of Dairy Industry

Chocolate-flavored milk. By F. M. Grant... 1935. 4 p. (BDIM-878) (Issued by Division of market-milk investigations)

✓ The relation between the color and vitamin A of butter and the feed of the cow. By H.T. Converse, H. G. Wiseman and E. B. Meigs. 1934. 6 p. (BDIM-681) (Presented at the 27th annual meeting of the American society of animal production, Chicago, Ill., Nov. 30, and Dec. 1, 1934)

Bureau of Entomology and Plant Quarantine

A cage for rearing minute insects. By E. V. Walter. 1935. 1 p. (ET-61) (Issued by Division of cereal and forage insect investigations)

The oblong weevil (*Phyllobius oblongus* L.) a new introduced pest of trees. 1935. 4 p. (E-359) (Issued by Division of forest insect investigations)

A rain-gauge support. By M. R. Osburn. 1935. 1 p. (ET-60) (Issued by Division of fruit insect investigations)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Entomology and Plant Quarantine  
(continued)

Stem rust in 1935. By E. C. Stakman. 1935. 7 p. (Issued by Division of plant disease control)

Extension Service

Agricultural economics extension work in 1934. Prepared by Agricultural economics extension section, Division of cooperative extension. 1935. 15 p. (Extension service circular 221)

Farming as a life work. [By] O.E. Baker. 1935. 12 p. (Extension service circular 224) (Supersedes Extension service circular 178)

General agricultural situation. 1935. 25 p. (Economics handbook for use of state extension specialists) (Assembled by Agricultural economics section, Division of cooperative extension, in cooperation with Bureau of agricultural economics)

Home demonstration work comes of age. By Grace E. Frysinger. 1935. 10 p. (Extension service circular 222)

Lespedeza: Excerpts from 1934 annual reports of state and county extension agents. Prepared by Extension studies and teaching section. 1935. 27 p. (Extension service circular no. 220)

The outlook for rural youth. By O.E. Baker. 1935. 35 p. (Extension service circular 223) (Supersedes Extension service circular 203)

Poultry and poultry products. 1935. 21 p. (Economics handbook for use of state extension specialists) (Assembled by Agricultural economics section, Division of cooperative extension, in cooperation with Bureau of agricultural economics)

Suggestions for use in conducting educational work on hay. By E. O. Pollock. 1935. 23 p. (In cooperation with the Bureau of agricultural economics)

Forest Service

Blood albumin glues - their manufacture, preparation and application. Revised July 1935. 5 p. (Issued by Forest products laboratory)

Collecting, extracting, and marketing southern pine seed. By Philip C. Wakeley. 1935. 10 p. (Southern forest experiment station. Occasional paper no. 51)

Comparisons of national forest timber estimates in the Douglas fir region. Based on the results of the Forest survey. By C. Weldon Kline. 1934. 7 p. (Issued by Pacific northwest forest experiment station)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Forest Service  
(Continued)

Drying and conditioning glued joints. 1935. 5 p. (Issued by Forest products laboratory, in cooperation with the University of Wisconsin, Madison, Wisconsin)

Forest fire statistics for the United States (exclusive of Alaska) area burned on protected areas only. July 10, 1935. 22 p.

Forest products laboratory research program, 1934-1935. 1934. 120 p. (Issued by Forest products laboratory in cooperation with the University of Wisconsin, Madison, Wisconsin)

Forest soils; the basis of forest management. By Eugene I. Roe. 1935. 9 p. (Issued by Lake states forest experiment station)

Killing undesirable hardwoods in southern forests. By Henry Bull and R. A. Chapman. 1935. 21 p. (Southern forest experiment station. Occasional paper no. 50)

The plains shelterbelt project. Statement prepared by the Lake states forest experiment station. 1935. 6 p.

Pulping and nonpulping cordwood volume in the southwest Alabama survey area. By Southern forest survey staff. 1935. 12 p. (Southern forest experiment station. Forest survey release no. 16)

Small water developments handbook for use of Civilian conservation corps. 1935. 69 p.

What, where, when, and why are termites? By Thos. E. Snyder. 1935. 6 p. (Southern forest experiment station. Occasional paper no. 52)

Bureau of Home Economics

Soybeans and soybean products for table use. By Ellen J. Kingsley. 1935. 17 p. (Issued by Foods and nutrition division)

Bureau of Plant Industry

Control of pecan rosette. By H. L. Crane. 1935. 2 p. (Issued by Division of fruit and vegetable crops and diseases)

Reaction of wheat varieties, selections, and hybrids to mosaic and mosaic-rosette. [By H. H. McKinney] 1935. 3 p. (Issued by Division of cereal crops and diseases) Tests conducted cooperatively with the Agricultural experiment stations of Illinois, North Carolina, and Purdue university.

Some distinguishing characters of certain species of the genus Brassica. By Albina F. Musil. 1935. 5 p. (Issued by Division of seed investigations)

Weather Bureau

Transmission of air mass and frontal analysis by teletype and radio. 1935. 8 p.

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## A PROPOSED TRANSLATION EXCHANGE SERVICE

In the July 1935 issue of Agricultural Library Notes, there appeared an article on Translations of Scientific Publications, in which an appeal was made for the cooperation of the bureaus of the Department in filing in the Library of the Department copies of translations made in their offices. Since then an Interbureau Committee on Translations has been organized in the Department, of which Dr. H. B. Humphrey, Principal Pathologist, Bureau of Plant Industry, is the chairman. Other members of the committee are: Dr. H. P. Barss, Principal Botanist, Office of Experiment Stations, Mr. G. F. Gravatt, Division of Forest Pathology, Bureau of Plant Industry, Miss Mary G. Lacy, Librarian, Bureau of Agricultural Economics, and Miss C. R. Barnett, Librarian of the Department. This committee has had several meetings to discuss means of furthering translating work. One of the recommendations of the committee is that there be established in the Department a Translating Exchange Service and that it be attached to the Library. The committee further recommended the extension of the service to include the land-grant colleges and universities. With the object of enlisting their support for the project, the matter was presented by Dr. H. B. Humphrey, on behalf of the Interbureau Committee on Translations, before the Sub-section on Experiment Station Work, on Monday, November 18, 1935, at the annual convention of the Association of Land-Grant Colleges and Universities. As a result, a committee of the Sub-section on Experiment Station Work was appointed to confer with the Department of Agriculture Interbureau Committee on Translations. Following the discussion between the two committees a unanimous endorsement of the plan was presented to the Sub-section on Experiment Station Work by the committee of the section, and received its approval. With this encouragement it is hoped that means will be forthcoming to carry on the project.

If given the necessary support, the Library of the Department has agreed to undertake to provide this translation exchange service. To carry on the project, the plan proposed is for the Library

1. To serve as a central depository for all translations sent to it, to preserve them suitably so that they may be consulted, copied, or photographed, to maintain a catalogue of them, and to issue current lists of the translations.
2. To lend duplicates of translations deposited with it, or if desired, to provide for photographic reproduction of the translations and of the charts and illustrations, at the same rate for which film copies of printed publications are furnished by the Biblio-Film Service operating in the Library.
3. To carry on the work of soliciting translations from the cooperating institutions.
4. To build up a mailing list of cooperating agencies and individuals who desire to maintain contact with the translation exchange service.
5. To act, in so far as possible, as a clearing house for information relating to translations available at cooperating institutions.

A PROPOSED TRANSLATION EXCHANGE SERVICE  
(continued)

If a similar plan is carried out in the various land-grant colleges and universities, including as a part of the plan the furnishing to the Department of Agriculture Library of copies of translations made in future in the various institutions, the sum total of the efforts of this network could be made available to all the cooperating institutions to their mutual advantage. A beginning in this large plan has already been made at the University of California Library as shown by the following statement from a letter dated November 5, 1935, from Mr. J. J. Lund of the School of Librarianship, University of California:

"Mrs. M. J. Abbott, Librarian of the Biology Library, has suggested that I reply to the request in your letter to her of October 23d for more information concerning the translation project on which I am working, and I am very glad to have the opportunity of doing so."

"As a preliminary step I have attempted to investigate the amount of translation being done at the University of California by interviewing the heads of various departments, particularly in the fields of natural and applied science, and supervisors of PWA projects. While this survey has not as yet been completed, I have found the number of translations now being made much greater than I had anticipated, and since I also found sufficient evidence of willingness to cooperate in a plea for central filing to warrant the conclusion that this would be the general attitude, I decided that it would be well immediately to formulate a definite plan of procedure."

"The plan that I considered at first of having merely a central card index to the translations filed in the respective departmental offices or libraries is manifestly unfeasible. In the first place, they would not be sufficiently easy of access, and in the second place, the systems of classification used for filing in the various departments are such as would not easily be understood by others than specialists in that particular field. Hence the only practical plan, as also stated in your article in Agricultural Library Notes, July 1935, is to have a separate copy of each translation available for the central file. Whether it will be sufficient merely to arrange these alphabetically by author or whether a further index will be necessary can be decided later."

"The University library is willing to support any such plan, although it may be necessary that it be financed for the present with government funds, and a letter is now being prepared requesting the supervisors of translation projects to arrange at once to have sufficient copies made of all translations so that the first carbon copy may be available for the central file. What is to be done about translations already made, can be decided later, but a great deal of work will be saved, in any case, if the making of the extra copy for the library of all new translations as these are typed is commenced at once."

"As there can be no doubt about the importance and value of such a file, I am very anxious that the plan be put into operation here, and should like to keep informed on what is being done in this respect at the Agriculture Library and also to know whether other libraries are considering the plan. I hope to be able before long to report more fully on the progress of the work here."

It is hoped that many other states will be able to cooperate in a similar way.

Claribel R. Barnett, Librarian.

NEWS ITEMS REGARDING THE STATE AGRICULTURAL COLLEGE LIBRARIES

Massachusetts States College Library:

On November 8, 1935, the new Goodell Library at Massachusetts State College was dedicated with impressive ceremonies. The following extracts regarding the Library are taken from the Springfield Republican for November 7, 1935:

"The new Goodell Library is one of the most modern college libraries in the country, according to the present librarian, Basil B. Wood. The design of the new building, named for Dr. Henry Goodell, president of the college from 1885 to 1904, and first college librarian, in many respects incorporates features found in few other college libraries... Segregation of the different classes of readers so that the browsers will not interfere with those who are doing research and so that those who wish to meet for discussion over their books will not interfere with those who wish quiet, has been accomplished by arrangement of rooms for each purpose. The main stacks of the library are directly across the entrance foyer from the main doors, making the most used part of the library readily accessible to the students. These stacks are lighted with unusual care and are in sharp contrast to the dark book storages of many older libraries. Free access is granted to all, and study tables are arranged on each floor. Separate study desks are provided. Easy chairs and floor lamps around the margin of the large reading room provide facilities for those who wish to read at complete ease.

"Conversation is usually strictly prohibited in most libraries but students wishing to converse in Goodell library may do so in specially designed conversation rooms which are provided as 'safety valves' for those not wishing to maintain the traditional library silence. Free conversation is permitted in the main entrance hall and in conference rooms and seminars.

"The Goodell library can be expanded to four times its size without in any way disturbing the front entrance or facade, if future growth of the college warrants this expansion."

New York State College of Agriculture Library:

The following information concerning the Library of the Bailey Hortorium, recently presented by Dr. L. H. Bailey to Cornell University, has been supplied by his daughter, Miss Ethel Zoe Bailey:

"The library comprises about 4,000 titles. It represents the old horticultural library which at the time of its assembly comprised one of the leading collections of American books on the subject. The library contains, as far as possible, local and regional floras of the world and monographs of genera and families of plants. In the course of time, a good number of rarities have been accumulated. Horticultural books that are concerned with the kinds of plants in cultivation have been obtained as far as possible. Sets of continuing series of periodicals are not kept, inasmuch as these are maintained in the University library.

"The library remains in its original place, together with the herbarium collections, and it has not yet been catalogued in the University system, having a catalogue of its own."

NEWS ITEMS REGARDING THE STATE AGRICULTURAL COLLEGE LIBRARIES  
(continued)

Oklahoma Agricultural and Mechanical College Library:

The report of the Library of the Oklahoma Agricultural and Mechanical College for the fiscal year July 1, 1934-June 30, 1935, has been issued as its Library Bulletin No. 1, and also as Bulletin of the Oklahoma Agricultural and Mechanical College, vol. 32, no. 7. It was made by Mr. Icko Iben, who has been Librarian of the College since September 1934. As it is the first extensive report of the library to be issued for some time, it contains considerable material regarding the progress of the library in previous years, including a table on the annual increment of the book collections from 1893 to 1935, and a table on the relation between the increase in the student body and the number of volumes in the Library, 1900 to 1935. Two illustrations are included, showing the main reading room and the loan desk and floor plans of the first and second floor. The report also contains a table of statistics on days and hours of opening of twenty-three of the Southern college and university libraries and a second table pertaining to the working conditions of full-time professional assistants in these libraries.

Pennsylvania State College Library:

The following extracts regarding the addition to the Pennsylvania State College Library is taken from the New York Times for November 10, 1935:

"Building changes at a cost of \$10,000 in the central building of the Pennsylvania State College Library have provided a stack for 20,000 additional volumes, additional space for at least twenty-five readers in the main reading room, better control over the books and a metal stack in the basement for about 25,000 magazines and pamphlets formerly stored on old wooden shelving.

"The central library building was erected in 1905 as the gift of Andrew Carnegie and was planned to hold 40,000 volumes. Today the entire library, including branch collections, has a total of 160,000 volumes and the central building has long since reached the limit of its resources. A new building, with stacks for 500,000 volumes, adequate administrative offices and work rooms, seminar rooms, faculty studies, recreational and special reading rooms and many other facilities now entirely unprovided for, is urgently needed, college officials say.

"In order to provide for the next three or four years, or until such a building can be erected, alcoves and circular stairs around the main reading room have been removed and the two-story Snead stack constructed for the 20,000 added volumes. In addition, a rearrangement of the floor plan in the reading room, eliminating unnecessary aisles, provides additional space for reading tables.

"The elimination of main floor alcoves released ten tiers of varied metal bookstacks which were transferred to the periodical storage room in the basement to replace the old wooden stack."

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DUPLICATES OFFERED BY THE OFFICE OF EXPERIMENT STATIONS LIBRARY

American Association of Farmers' Institute Workers Proceedings 6-22(1901-1917).  
1902-1918.

Proceedings 6-17, inclusive, issued as Off. Expt. Stas. Bul. 110, 120,  
138, 154, 165, 182, 199, 213, 225, 238, 251, 256. 1902-1913.

Bailey, L. H. Farmers' institutes: history and status in the United States  
and Canada. Off. Expt. Stas. Bul. 79. 1900.

Hamilton, John, History of farmers' institutes in the United States. Off.  
Expt. Stas. Bul. 174.

Hamilton, John. Legislation relating to Farmers' institutes in the United  
States. Off. Expt. Stas. Bul. 241. 1911.

Hamilton, John. Farmers' institutes for women. Off. Expt. Stas. Circ. 85.  
1909.

Hamilton, John, and Stedman, J. M. Farmers' institutes for young people.  
Off. Expt. Stas. Circ. 99. 1910.

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LOST BOOK

The following book cannot be found. It will be appreciated if anyone having  
information in regard to it will notify the Loan Desk of the main Library:

Institut für allgemeine botanik, Hamburg. Mitteilungen, v.6, no. 3. 1927.

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# AGRICULTURAL LIBRARY NOTES

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WASHINGTON  
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BARAVELLI, G. C. Integral land-reclamation in Italy. Roma, Società editrice di "Novissimà", 1935.

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BERGSMARK, D. R. Economic geography of Asia. New York, Prentice-Hall, 1935.

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Wool

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THIÉRY, J. Considérations sur l'examen des animaux atteints ou suspects de rage. Pau, 1932. Thèse. Univ. de Paris.

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RADIO AND THE FARMER

The Radio Institute of the Audible Arts, 80 Broadway, New York, has just issued a pamphlet of 68 pages bearing the following title: Radio and the Farmer by Edmund deS. Brunner, Professor of Education, Teachers College, Columbia University and a Symposium on the Relation of Radio to Rural Life. It is a survey of the opinions of rural leaders in all parts of the country on the relation of radio to rural life, compiled by The Radio Institute of the Audible Arts. The publication is one in a series of studies of the social and cultural aspects of radio published by the Institute to stimulate wider appreciation of worthwhile programs on the air, and to encourage fuller utilization of radio as an instrument of entertainment and education. It contains comments on such subjects as the value of radio in keeping young people on the farm, in relieving the loneliness of farm women, and in bringing the farmer into closer and more understanding relationship with the rest of the national family. At the end of the pamphlet is a brief bibliography.

The following extract from Dr. Brunner's article will be of special interest to state agricultural college librarians:

"One of the state college stations, WOI at Iowa State College, has made a real attack on the problems of the well-known deficiency in rural library service, by broadcasting book reviews and readings. Over 170 volumes of the better type of fiction have been reviewed and read. Local telephone managers report a decided drop in business while this broadcast is in progress. House-to-house canvassers have learned not to call at this time.

"An outgrowth of this feature has been a Radio Book Club which loans books at a very small charge from its list of nearly 1,000 titles, including both fiction and non-fiction. This club is self-supporting. It issues through the agricultural extension service a well-printed catalog of its books with a brief paragraph of description of each."

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PUBLICATIONS BY U. S. DEPARTMENT OF AGRICULTURE WORKERS  
APPEARING OUTSIDE THE DEPARTMENT\*

Office of the Secretary

- WALLACE, H. A. Food research and recovery. Not merely fragments of science but the whole body of science must grapple with the problem if recovery is to be permanent. Canner 21(24): 7-8, 24, Nov. 23, 1935.
- Problems of a high tariff creditor nation. Farm and Ranch 54(22): 9, 19-20. Nov. 15, 1935.
- Processing taxes - real and imaginary. Farm and Ranch 54(23): 16. Dec. 1, 1935.
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Agricultural Adjustment Administration

- HUTSON, J. B. Grower and consumer interests in the potato problem. Amer. Potato Jour. 12: 295-303. Nov. 1935.

Bureau of Agricultural Engineering

- BENNETT, C. A. Brief discussion of gin saw tooth form and shape. Cotton Ginner's Jour. 7(1): 3-4, 14. Oct. 1935.
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Bureau of Animal Industry

- EVERLY, T. C., BURROWS, W. H. and TITUS, H. W. Testis stimulating potency of frozen turkey pituitaries injected subcutaneously into young male chicks. Poultry Sci. 14 : 189-190 May 1935.
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- JULL, M. A. Real test of a breeder. Feathered World 93:299 Sept. 20, 1935.
- KNOX, C. W. New standards adopted by the poultry industry. Successful Farming 33 (11) : 26, 56-58. Nov. 1935.
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\*These lists are prepared in the bureaus under which they are listed, with the exception of the Office of the Secretary, the Agricultural Adjustment Administration, and Soil Conservation Service.

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Bureau of Biological Survey

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How the Canadian trade agreement will affect farmers. Remarks by Henry A. Wallace over the National farm and home hour, NBC, Nov. 21, 1935. 5 p.

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Processing taxes - real and imaginary. Remarks by Henry A. Wallace, over the National farm and home hour, Nov. 5, 1935. 4 p.

The place of food research in national recovery. Address of Henry A. Wallace before the Associated grocery manufacturers of America, at the Waldorf-Astoria hotel, New York City, Nov. 14, 1935. 12 p.

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Agricultural Adjustment Administration

Chronological record of marketing agreements, licenses, orders, codes and amendments. May 12, 1933, to Nov. 1, 1935. 3 p.

Comments on the agricultural situation. Remarks by Henry A. Wallace, over the National farm and home hour, National broadcasting company, Oct. 29, 1935. 3 p. (Current information statement no. 11)

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\*Bibliographies included in general list of bibliographies on page 500-501.

\*\*For a list of the principal series issued regularly, see v. 9, no. 10, p. 384.

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Goals in agricultural adjustment. By F. F. Elliott. 1935. 21 p. Speech before the County planning project conference in Washington, D. C., on Oct. 25, 1935.

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by geographic groups of states. 1935. 2 p. (Issued by Division of crops and  
livestock estimates).

Poultry consumption and consumer preference for poultry in New York city,  
Jan. 1935. By Alexander Sturges and Gordon W. Sprague. 1935. 17 p.  
(In cooperation with the Emergency relief bureau of New York City)

Prospects for increased foreign cotton production. By P. K. Norris. 1935.  
13 p. (Address, Farmers' and farm women's short course, Louisiana State  
university, Baton Rouge, La., Aug. 13, 1935).

Quality of the 1935 crops: wheat, barley, oats, rye, and grain sorghums. Summary  
report based on inspected receipts at representative markets, first quarter  
1935 crop year. 1935. 9 p. (Issued by Grain division)

Regional adjustment project and the county planning project. By Albert G.  
Black. 1935. 2 p. (County planning project conference, Washington,  
D. C., Oct. 25, 1935)

Statistical report of the deciduous fruit export season, 1934-35. By Archie  
C. Edwards. 1935. 19 p. (Foreign agricultural service. F.S.A. 443)

Shipments of fruits and vegetables from producing regions to consuming markets  
by motor truck, 1933 and 1934. Trends in motor-truck shipments, distances  
shipped, and seasonal movement. 1935. 40 p. (Issued by Division of fruits  
and vegetables)

Tax delinquency of rural real estate in 19 Minnesota counties, 1928-33. 1935.  
13 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 192 New Hampshire towns, 1928-33. 1935.  
13 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 17 Kansas counties, 1928-33. 1935.  
14 p. (Issued by Division of agricultural finance)

Tax delinquency of rural real estate in 16 Montana counties, 1923-33. 1935.  
14 p. (Issued by Division of agricultural finance)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS  
(Continued)

Bureau of Biological Survey

Abstract of fur laws, 1935-36. Compiled by Frank G. Grimes... 1935. 29 p. (Wildlife research and management leaflet BS-23) Issued by Division of public relations.

Bounties paid by states. Compiled by Frank G. Grimes. 1935. 4 p. (Wildlife research and management leaflet BS-24) Issued by Division of public relations.

Feed cost of producing young rabbits to weaning age. By Chas. E. Kellogg. 1935. 3 p. (Wildlife research and management leaflet BS-21) Issued by Division of wildlife research, Section of fur resources.

Feed requirements in raising weaned rabbits to a weight of 6 pounds. By Chas. E. Kellogg. 1935. 4 p. (Wildlife research and management leaflet BS-22) Issued by Division of wildlife research, Section of fur resources.

What shall we feed our pelters? By Chas. F. Bassett. 1935. 7 p. (Wildlife research and management leaflet BS-20)

Bureau of Chemistry and Soils

Solid carbon dioxide methods, apparatus, uses; selected list of domestic and foreign patents. Compiled by V. A. Pease. 1935. 22 p. (Issued by Food research division)

Bureau of Entomology and Plant Quarantine

A device for regulating the quantity of spray. By Oliver I. Snapp and J. R. Thomson. 1935. 3 p. (ET-62) (Issued by Division of fruit insect investigations)

Laboratory methods of rearing four species of lepidopterous pests of truck crops. By M. C. Swingle. 1935. 5 p. (ET-64) (Issued by Division of control investigations)

A trap for collecting insects. By J. U. Gilmore and Hoe Milam. 1935. 3 p. (ET-63) (Issued by Division of truck crop and garden insects)

Office of Experiment Stations

Research in home economics at the land-grant institutions, 1935-1936. Compiled by Sybil L. Smith. 1935. 23 p.

Extension Service

Foods and nutrition exhibits. Excerpts from 1934 annual reports of state and county extension agents. Prepared by Extension studies and teaching section. 1935. 14 p. (Extension service circular 226)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Extension Service  
(Continued)

Report of boys' and girls' 4-H clubs in the central states, 1934. Twenty years of 4-H club accomplishment, 1914-34. By R. A. Turner. 1935. 19 p. (Extension service circular 225)

Report of home demonstration work, 1934. By Madge J. Reese. 1935. 16 p. (Extension service circular 228)

Forest Service

Famous trees. 1935. v.p. (Prepared by D. Priscilla Edgerton)

Propagation of game food and cover plants of the Lake states. 1935. 81 p. (Issued by Lake states forest experiment station)

Relation of cull percent to tree diameter and to percentage of trees with basal wounds in some eastern hardwoods. By George B. Hepting, and George G. Hedcock. 1935. 3 p. (Appalachian forest experiment station. Technical note no. 16)

Bureau of plant industry

Cultivation may be overdone. By Charles Thom. 1935. 2 p.

Descriptive list of plants available at United States plant introduction garden, Coconut grove, Fla., season, 1935-6. 1935. 5 p. (Issued by Division of plant exploration and introduction)

Micropopulations correlated to decomposition processes. By Charles Thom. 1935. 3 p.

The new coordinated federal-state cotton research program. 1935. 11 p. Presented to the Textile section of American society for testing materials at New York City, on Oct. 18, 1935, by Mr. H. W. Barre, of the Division of cotton and other fiber crops and diseases.

What is below ground? By Charles Thom. 3 p. 1935. Radio broadcast, Apr. 2, 1935.

Soil Conservation Service

Outline of investigations and summary of results! 1930-1935, Red Plains soil: erosion experiment station, Guthrie, Oklahoma. 1935. 18 p.

Soil erosion and its control in the United States: a paper given in the plenary session of the Third international congress of soil science. By W. C. Lowdermilk. 1935. 12 p.

Wildlife and erosion control, by H. H. Bennett. 1935. 13 p. Presented before 31st annual convention, National association of Audubon societies, New York, Oct. 29, 1935.

## LIBRARIES AND HOME ECONOMICS

The following editorial on Libraries and Home Economics appeared in the Journal of Home Economics for November 1935, vol. 27, no. 9, p. 582:

"The United States is justly proud of its public libraries; yet the proportion of our population that can enjoy such service is much smaller than many of us realize, and even where it is available many of us do not make as good use of it as we might. More widespread library facilities and more efficient use of the ones there are, would certainly be helpful both in teaching and studying home economics and in making the general public understand the aims and accomplishments of the subject. It was because of this that in 1934 the executive committee of the American Home Economics Association appointed a special committee on home economics in education through libraries with Lula E. Smith of the State University of Iowa as chairman.

In attempting to formulate its work, this committee saw two interrelated problems: to educate home economists to increased appreciation of public libraries as sources of reliable books, periodicals, and other publications on home economics subjects and to keep librarians informed regarding desirable material in our field and ways in which patrons of libraries might make use of them. It quickly realized that the needs of school and adult study groups in home economics and kindred subjects offered one of the strategic approaches to both these goals and that cooperation with librarians was another essential. This year the committee is urging the organization of similar committees in all affiliated home economics associations. A little later it will doubtless have further suggestions to make.

The committee has already established cordial cooperative relations with the American Library Association, which is always ready to give active help in attempts to stimulate the support and use of libraries. The paper on page 553 is a result of this cooperation. It shows how ingenious the friends of libraries have been in making their facilities available in all sorts of places and how desirable it is to have them reach yet more of our people. Before this can happen, the general public must of course come to realize the value and possibility of such service; and since the latter can be of direct aid in home economics programs, home economists will naturally be glad to help in creating the legitimate demand.

The idea of having a special division in some part of the federal government devoted to promoting library service in the same general way that the United States Office of Education promotes educational interests seems an admirable one, and this item in the American Library Association's program will have the hearty support of many other organizations. The present proposal, worked out between the Association and the Commissioner of Education, is to include in the next budget of the Office of Education an appropriation sufficient to cover a division of libraries in that office. This plan is much simpler than the creation of a special independent agency, but even it will have its hurdles to pass, as do most new educational projects. Those who are seriously concerned to see such an aid given to library service must prepare to say their word for the cause. They can get more information about this proposal and library cooperation in general from the American Library Association, 520 North Michigan Avenue, Chicago, Illinois."

## PUBLICATIONS OF THE UNITED STATES AGRICULTURAL SOCIETY

The United States Agricultural Society had a marked influence in the matter of the legislation of 1862 which resulted in the establishment of the U. S. Department of Agriculture. Its publications have, therefore, a special interest for agricultural libraries but they are a trial to the cataloguer because of their erratic numbering, pagination, and changes of title. Miss Harriet W. Pierson of the Catalog Division, Library of Congress, has recently made a thorough investigation of the file preparatory to the revision of the Library of Congress printed cards for the journal. She has kindly allowed her findings to be published in advance in Agricultural Library Notes, as it was thought they might be of general interest.

There is a brief history of the society in the U. S. Department of Agriculture Report for 1866, pp. 525-526, in an article by Ben Ferley Poore on "The History of the Agriculture of the United States". A much fuller account may be found in "The President's Cabinet" by Henry B. Learned, 1912, pp. 318-345. This includes at the end a list of the publications of the society made up from the file in the Library of Congress. The Library of Congress printed cards will include the following brief statement about the history of the society based on these two articles.

"In 1841 a convention was held in Washington to organize a national agricultural society, with the fund which had been bequeathed by Hugh Smithson as its support. The establishment of the Smithsonian Institution prevented the carrying out of this plan. In 1852 another convention was called to meet in Washington, at which convention the United States Agricultural Society was formed. The society was incorporated 1860.

"The establishment of a Department of Agriculture was urged at every annual meeting of the society until the desired result was attained through the creation of that department by an act of Congress, May 15, 1862. The society was then relieved of many of its self-imposed duties, including the publication of a periodical devoted to the interests of agriculture. The operations of the society were interrupted by the Civil war, though it was kept alive and annual meetings prescribed by the constitution were held.

"There is record of but two publications of the society after 1862: Proceedings of the twenty-eighth annual meeting... January 14, 1880 (cover-title, 11 p.); Proceedings of the 29th annual meeting... January 12, 1881 (cover-title, 24 p.)

"A meeting was scheduled for January 11, 1882, at the Department of Agriculture, but no record of such meeting has been found, and the society apparently ceased to exist after 1881."

In recataloguing the file, Miss Pierson found two publications which are not included in Mr. Learned's list, namely, vol. 9, no. 1 of the Journal of the Society and a separate pamphlet entitled "Proceedings of the 28th Annual Meeting, January 14, 1880". This is probably even more rare than the Proceedings of the 29th annual meeting, 1881, which received special mention by Mr. Learned.

The full entry for the Journal of the Society as it will appear on the Library of Congress cards will be substantially as given on the next page except for the omission of the references to the history of the society, mention of which has already been made.

PUBLICATIONS OF THE UNITED STATES AGRICULTURAL SOCIETY  
(continued)

United States Agricultural society.

The journal of agriculture (comprising the transactions and the correspondence of the United States agricultural society...) v. 1-v. 10, no. 1; Aug. 1852-Feb. 1862. Washington, D. C., [etc.] 1852-62.

10 v. in 5. illus., plates, diagrs. 23 cm.

Vol. 2 has imprint: Boston, 1855; v. 3: Washington, 1855 (on cover: Boston, 1856); v. 4: Boston, 1856 (on cover: 1857).

Vol. 1 comprises no. 1-3/4 Aug. 1852-Feb. 1854; v. 2-6, 1854-58, are annual volumes (v. 2-3, 5-6 being without volume numbers and v. 4 being incorrectly numbered v. 3); v. 7 comprises no. 1-4 [Apr.] 1859-Jan. [1860]; v. 8 is complete in 3 no., Apr.-Oct. 1860; v. 9, Feb. 1861, complete in 1 no.; v. 10, Feb. 1862, complete in 1 no. Material for v. 8, no. 4, v. 9, no. 2-4, v. 10, no. 2-4, was ready for printing or was in preparation, but no record has been found that these numbers were ever published. cf. v. 10, no. 1, p. 75 (cf. also v. 7, p. 76).

The paging of v. 8, no. 1 begins with p. [17]; of v. 9, no. 1, with p. [9]; of v. 10, no. 1, with p. [9]. The missing page-numbers were reserved for title-pages and tables of contents.

Title varies: 1852-57, Journal of the United States agricultural society; 1858, Transactions and monthly bulletin of the United States agricultural society.

1859-62, The Journal of agriculture... (Cover-title: The Quarterly journal of agriculture).

Editors: 1852 (v. 1, no. 1) Daniel Lee.-1853 (v. 1, no. 2) J. C. G. Kennedy.-1854-56 (v. 1, no. 3/4-v. 4) W. S. King.- 1857-62 (v. 5-10) B. P. Poore.

The Monthly Bulletin which forms a part of v. 6, 1858, has its own numbering, v. 1, no. 1-11.

List of members in v. 1, 3, 5-7.

Collation of volumes in L. C. set.

- v. 1, no. 1, Aug. 1852... iv, [5]-144 p. fold. front.  
[no. 2] July 1853... 160 p.; (numbered on cover, no. 1); (on p. 160,  
"end of no. 1")  
[no. 3/4] Feb. 1854... 281 p. (p. 277-279 repeated)  
[v. 2] 1854. Boston, 1855.... 255, [1] p.  
[v. 3] 1855. Washington, D. C., 1855.... 261 p., 1 l.  
[v. 4] (mis-numbered vol. III) 1856. Boston, 1856. (cover dated 1857)...  
269, ii p.  
[v. 5] 1857. Washington, D. C., n. d.... 290 p.  
[v. 6] 1858. Washington, D. C., 1859.... 104 p., 1 l., 92 p.  
[v. 7] 1859. Washington, D. C., 1860.... viii, [9]-388 p.  
(p. 1-88 apparently from the April number. cf. p. 76, 84)  
v. 8, no. 1, Apr. 1860. [17]-192 p. (p. 1-16 reserved for t.-p. and  
table of contents)  
no. 2, July 1860... p. [193]-330.  
no. 3, Oct. 1860... p. [331]-418.  
v. 9, no. 1, Feb. 1861.... [9]-72 p. (p. 1-8 reserved for t.-p. and  
table of contents)  
v. 10, no. 1, Feb. 1862... [9]- 76 p. (p. 1-8 reserved for t.-p. and  
table of contents)

PUBLICATIONS OF THE UNITED STATES AGRICULTURAL SOCIETY  
(continued)

In v. 10, no. 1, Feb. 1862, p. 75, the following statement is made:

"Only the first three of the four numbers of the Journal... 1860, have as yet been published and only the first number of the four which will form the volume... for 1861." The hope is expressed that the treasury might be sufficiently replenished to permit the publication of these four unprinted numbers, as well as the three remaining numbers of v. 10. Apparently this plan never materialized.

Other issues (Published in advance of the volume editions and differing slightly from those editions)

- [v. 3] pt. 1, 1855. Washington, D. C., 1855. 33, [1] p. 23 cm.  
[v. 4] pt. 1, 1856. Boston, 1856. 82 p. 22 cm.

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INTERNATIONAL INSTITUTE OF DOCUMENTATION  
Copenhagen Congress

The following account of the meeting of the International Institute of Documentation in Copenhagen in September 1935 is abridged from Nature, November 2, 1935, p. 727 (v. 36, no. 3444):

"Microphotography, as a means of distribution of data, rivalled such veteran subjects as decimal classification and cataloguing in discussions at the Copenhagen Congress of the International Institute of Documentation, on September 10-14. Marking the fortieth anniversary of the world bibliographic or documentation movement that arose out of the 1895 International Congress of Bibliography, this thirteenth Congress in a part of its programme provided, in effect, a 'clearing house' for current progress upon microphotographic duplication as visualised or practised in many lands.

Nearly fifty reports were presented to the Congress, and the advance volume of the Congress is an important addition to the literature of finding, classifying, preserving and distributing written information.....

The president of the Congress, Dr. J. Alingh Prins, president of the Dutch Patent Office, said in an opening address that documentation has three stages: (1) investigation as to what has been written about a subject or put into the form of a document; (2) filing the material so that the place of each subject may be determined instantly; (3) placing the material at the disposal of those who need it.

With regard to filing and classifying material, Dr. Prins said: "Collected material, which is not filed, is of little importance. What system of classification should be adopted? In theory this does not matter; the main thing is, that one and the same system is used nationally and internationally. We are convinced that the most serviceable system is the decimal system, invented by Melvil Dewey, and considerably improved in Brussels by Lafontaine and Otlet and since then brought to a high stage of development by the international classification committee of our Institute under Donker Duyvis, with the co-operation of a large number of prominent persons from different countries."

INTERNATIONAL INSTITUTE OF DOCUMENTATION  
(continued)

Decimal classification, and the sessions of the committee charged with keeping the system in step with advancing knowledge, bulked large on the programme, with reports on its use in Germany, Switzerland, England, America, Holland, Norway, Sweden, Denmark, Finland and other countries.

Of fundamental importance was the paper presented by Dr. S. C. Bradford, keeper of the Science Library, London, which analysed the situation surrounding library service in the general field of science, including societies, research institutions, business and industrial organisations, etc., and came to the conclusion that a central library of science and technology would alleviate many of the disabilities under which scientific and technical work is carried out at the present time. A communicated paper by E. Lancaster Jones explained the classified bibliography operated by the Science Library. A paper by Watson Davis, director of Science Service, Washington, told of suggested applications of microphotographic duplication in making available existing literature in libraries and publishing scientific papers and monographs that cannot at present be issued promptly or in full.

Television was foreseen as a future tool in library service by Dr. Walther Schürmeyer, director of the Library of Art and Technology at Frankfurt, whose paper stressed primarily the possibility of applying photographic methods to the distribution of information from libraries.

How photographing of library cards upon motion picture film, and making enlargements from these convenient and inexpensive negatives, is done was the subject of a paper presented by Paul Vanderbilt, librarian of the Pennsylvania Museum of Art, who used this technique experimentally in connexion with a union catalogue of Philadelphia libraries. Experience with use of film copies and microphotoprints at the Huntington library in America was reported in a communication from Dr. L. Bendickson, and there was also a communicated report on photographic methods in connexion with documents and libraries by Dr. H. Joachim, director of the Zeiss Ikon concern at Dresden.

The question of the photocopying of books and literature in view of the copyright laws and rights of authors was the subject of one session. The standardisation of the format for film copies so as to simplify the exchange of film copies between different countries was urged in resolutions, with a recommendation for the use of 35 mm. film, perforated both sides, with width of image of 24 mm. and a reduction of approximately 12 to 1.....

Several related efforts in the field of documentation were made known and explained by documents distributed at the congress. The International Institute of Intellectual Co-operation of the League of Nations reported the progress in its endeavor to co-ordinate world efforts in the field of documentation, and the International Office of Chemistry, Paris, made available a report, "L'Utilisation du Film comme Support de la Documentation", giving proceedings of its April conference."

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COMMUNICATIONS OF THE INTERNATIONAL COMMITTEE  
OF AGRICULTURAL LIBRARIANS

By Dr. Sigmund von Frauendorfer, Secretary

The office of President of the International Committee of Agricultural Librarians has been accepted by Miss Claribel R. Barnett, Librarian of the U. S. Department of Agriculture. Of the list of the proposed committee members previously announced, the following have accepted appointment:

- Dr. Jan. Bostik, Librarian, Czechoslovakian Academy of Agriculture, Prague.
- Mr. Charles H. Brown, Librarian, Iowa State College, Ames
- Dr. Per Hebbe, Librarian, Landbruks Højskole, Uppsala
- Mr. C. H. Hooper, Librarian, South-Eastern Agricultural College, Wye, Kent
- Mr. Arne Johnson, Librarian, Norges Landbruks Høiskole, Aas
- Dr. H. N. Kooiman, Librarian, Landbouwhoogeschool, Wageningen
- Dr. S. Lewicky, Librarian, Agricultural College, Pulawy
- Mr. M. Lobedanz, Librarian, Kgl. Veterinaer og Landbohøjskole, København
- Mr. Fernando G. Luna, Chief, Agricultural Publications, Library of the Department of Agriculture, Madrid
- Prof. L. Mila, Manager, Service Bibliographique de la Société des Agriculteurs de France, Paris.
- Mr. Mühlner, Librarian, Landwirtschaftliche Hochschule, Berlin
- Dr. J. Stummvol, Librarian, Agricultural College, Ankara

At present the following countries are, therefore, represented: Czechoslovakia, Denmark, France, Germany, Great Britain, Netherlands, Norway, Poland, Spain, Sweden, Turkey, United States. Steps will be taken in the near future to invite the participation of librarians of countries which are not thus far represented.

In regard to the proposed affiliation of the Committee with the International Federation of Library Associations, the Secretary has corresponded with Dr. Sevensma, Librarian of the League of Nations and Secretary of the Federation. There appear to be two possible ways of collaboration. On the one hand the Committee could become a real member of the Federation with annual membership dues of 25-50 centimes (Swiss) per single member of the Committee. This type of affiliation would permit the Committee to publish its proceedings in the "Actes du Comité international des Bibliothèques" (Nijhoff). On the other hand, a simple collaboration would not involve any obligations on the part of either. It would, however, deprive the Committee of a means of publicity of certain importance. The Secretary of the Committee would be pleased to receive opinions from the members as to the best solution of this problem.

Several letters have been received by the Secretary, containing suggestions as to the most urgent items of the "Tentative Program" for the Committee's activity. It seemed advisable to start with the compilation of an international list of agricultural libraries and bibliographic centers, and also of an annotated list of current bibliographies in the field of agriculture and allied subjects.

COMMUNICATIONS OF THE INTERNATIONAL COMMITTEE  
OF AGRICULTURAL LIBRARIANS  
(continued)

The Library of the International Institute of Agriculture has recently published a preliminary edition of a list of all periodicals currently received. A copy of this list will be sent gratuitously to the members of the Committee.

The attitude of the American Library Association in relation to the International Committee of Agricultural Librarians is expressed in the Report of the Committee of the Agricultural Libraries Section of the American Library Association, on the proposed formation of the International Committee, and in the resolution submitted by Mr. C. H. Brown, which expresses a hearty approval of the formation of the International Committee. (See Bulletin of the American Library Association, v. 29, no. 9, Sept. 1935, p. 571-573)

The F. I. T. A. (Fédération Internationale des Techniciens Agronomes) was kind enough to facilitate the work of the Secretary by providing a typist, stationery, and postage for the correspondence.

In the future, announcements of the Committee will be found in the periodicals: "Technique agricole internationale", "Agence Agricole Internationale" (Rome, Via Regina Elena, 86), and in "Agricultural Library Notes" (United States Department of Agriculture Library, Washington, D. C.)

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LIST OF PERIODICALS CURRENTLY RECEIVED  
IN THE INTERNATIONAL INSTITUTE OF AGRICULTURE LIBRARY

The "Liste des Periodiques reçus couramment par la Bibliothèque de l'Institut International d'Agriculture" (List of periodicals currently received in the Library of the International Institute of Agriculture) which has recently been issued by the Institute Library will be a very useful reference book in agricultural and scientific libraries. It contains the periodicals currently received by the Institute on January 1, 1935. The periodicals are arranged by country and under each country alphabetically by the title of the periodicals. The titles of the periodicals are given in the original languages. They are followed by the place of publication, by the frequency of issue, and by the call number which corresponds with the arrangement of the periodicals in the Library. At the end of the list there is an alphabetical index by subjects which groups the periodicals according to their contents. For the periodicals received since January 1, 1935, it is necessary to consult the "Revue Internationale d'Agriculture" published by the International Institute of Agriculture. In the numbers for March, June, September and December will be found under the heading "Publications reçues par la Bibliothèque", subdivision "Periodiques", a supplementary list of the new accessions.

It is interesting to note that 65 different countries are included in the geographical arrangement. The total number of periodicals listed is approximately 2600.

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## BIBLIO-FILM SERVICE

### Announcement

Under a cooperative arrangement recently made between Science Service and the Library of the U. S. Department of Agriculture, effective January 1, 1936, Science Service will take over the photographic work formerly carried on by the Biblio-Film Service operating in the Library, and also the business management of the film copying service. The laboratory, however, will continue to be located in the Library. The work of the Library, after January 1, 1936, will be confined to gathering and verifying material wanted from its own collections, including also related bibliographical work in its own field.

The Biblio-Film Service has been operating in the Library of the U. S. Department of Agriculture since November 15, 1934 with the purpose of making books and records in the Library available upon 35 mm. microfilms. It was inaugurated largely through the assistance of Dr. Atherton Seidell of the National Institute of Health, and of Dr. R. H. Draeger of the Medical Corps, U. S. Navy. The purpose of the service is (1) to decrease interlibrary loans of books by supplying directly to individuals, film copies of scientific articles, particularly those contained in periodicals, and (2) to extend the use of the resources of the Library to isolated scientific workers without adequate scientific facilities. The records of the use of the service during the past year show that it has been quite successful in fulfilling its purpose for it has unquestionably reduced the number of books which it would have been necessary to send out of town on interlibrary loan, and in addition, a number of libraries, firms and individuals are now making use of the Library's resources that had not used it previous to the inauguration of the film service.

For the purpose of discussion, Science Service has issued various documents discussing various phases of microphotographic duplication in the service of documentation. Document 72 contains a general discussion and will be sent free on request to Science Service, 2101 Constitution Avenue, Washington, D.C.

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